Service Manual

Telephone Equipment

KX-TC908BX

KX-TC909LA-B

KX-TC918BX-B

900MHz Cordless Phone

KX-TC928BX

KX-TC929LA-B

KX-TC938BX-B

(for Asia, Middle Near East and Other areas)

Panasonic

■ REPLACEMENT PARTS LIST

Reason for Change	The following reasons (1-8) are indicated in the Note below.
1. Improve performance	
2. Change of material or dimension	
3. To meet approved specification	
4. Standardization	
5. Addition	
6. Deletion	
7. Correction	
8. Other	

Interchangeability Code The following interchangeabilities (V-Z) are indicated in the Note below.

	Parts		Set Production	Description
V	Original New		Early (before change) Late (after change)	Original or new parts may be used in early or late production sets. Use original parts until exhausted, then stock new parts.
W	Original New		Early (before change) Late (after change)	Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.
X	Original New		Early (before change) Late (after change)	New parts may only be used in early or late production sets. Stock new parts.
Y	Original New		Early (before change) Late (after change)	Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.
Z	Other			

● KX-TC908BX

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Implementation	Suffix	Notes	
	Original	**Supplement-2**						
BASE UNIT								
SA1	PQVDRA311PT3	**PQVDDSS301L**	POSISTOR S ⚠	1	3. 1998		1	X
PORTABLE HANDSET								
107	PQSX10043Z	**PQSX10043Y**	KEYBOARD SWITCH	1	7. 1997		1	X
E1	PQEFBDB111GP	**PQEFBDB111GX**	BUZZER	1	1. 1998		1	X
C416	----------	**ECUV1H030CC**	CAPACITOR, 3pF	1	7. 1998		5	
C495	----------	**MQLR10NJF**	COIL	1	7. 1998		5	
PACKING MATERIALS								
P6	PQPK12204Z	**PQPK12204Y**	GIFT BOX	1	4. 1997			

● KX-TC909LA-B

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Implementation	Suffix	Notes	
	Original	**Supplement-2**						
BASE UNIT								
SA1	PQWDRA311PT3	**PQVDDSS301L**	POSISTOR S ⚠	1	3. 1998		1	X
PORTABLE HANDSET								
107	PQSX10043Z	**PQSX10043Y**	KEYBOARD SWITCH	1	7. 1997		1	X
E1	PQEFBDB111GP	**PQEFBDB111GX**	BUZZER	1	1. 1998		1	X
C416	----------	**ECUV1H030CC**	CAPACITOR, 3pF	1	7. 1998		5	
C495	----------	**MQLR10NJF**	COIL	1	7. 1998		5	

Reason for Change

Interchangeability Code

● KX-TC918BX-B

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Implementation	Suffix	Notes	
	Original	**Supplement-1**						
BASE UNIT								
SA1	PQWDRA311PT3	**PQVDDSS301L**	POSISTOR S ⚠	1	3. 1998		1	X
PORTABLE HANDSET								
107	PQSX10043Z	**PQSX10043Y**	KEYBOARD SWITCH	1	7. 1997		1	X
E1	PQEFBDB111GP	**PQEFBDB111GX**	BUZZER	1	1. 1998		1	X
C416	----------	**ECUV1H030CC**	CAPACITOR, 3pF	1	7. 1998		5	
C495	----------	**MQLR10NJF**	COIL	1	7. 1998		5	

● KX-TC928BX

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Implementation	Suffix	Notes	
	Original	**Supplement-2**						
BASE UNIT								
SA1	PQWDRA311PT3	**PQVDDSS301L**	POSISTOR S ⚠	1	3. 1998		1	X
PORTABLE HANDSET								
107	PQSX10043Z	**PQSX10043Y**	KEYBOARD SWITCH	1	7. 1997		1	X
E1	PQEFBDB111GP	**PQEFBDB111GX**	BUZZER	1	1. 1998		1	X
C416	----------	**ECUV1H030CC**	CAPACITOR, 3pF	1	7. 1998		5	
C495	----------	**MQLR10NJF**	COIL	1	7. 1998		5	
PACKING MATERIALS								
P6	PQPK12205Z	**PQPK12205Y**	GIFT BOX	1	4. 1997			

● KX-TC929LA-B

Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Implementation	Suffix	Notes	
	Original	**Supplement-2**						
BASE UNIT								
SA1	PQWDRA311PT3	**PQVDDSS301L**	POSISTOR S ⚠	1	3. 1998		1	X
PORTABLE HANDSET								
107	PQSX10043Z	**PQSX10043Y**	KEYBOARD SWITCH	1	7. 1997		1	X
E1	PQEFBDB111GP	**PQEFBDB111GX**	BUZZER	1	1. 1998		1	X
C416	----------	**ECUV1H030CC**	CAPACITOR, 3pF	1	7. 1998		5	
C495	----------	**MQLR10NJF**	COIL	1	7. 1998		5	

● KX-TC938BX-B

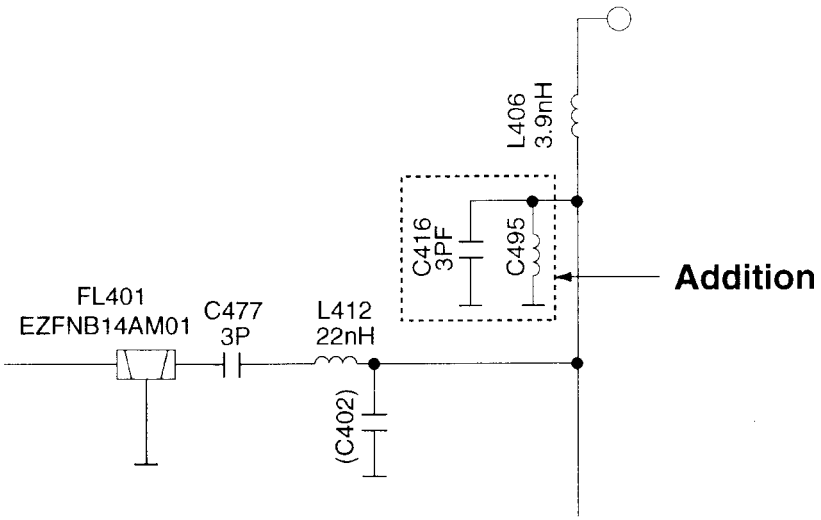
Ref. No.	Part No.		Part Name & Description	Pcs/ Set	Implementation	Suffix	Notes	
	Original	**Supplement-1**						
BASE UNIT								
SA1	PQWDRA311PT3	**PQVDDSS301L**	POSISTOR S ⚠	1	3. 1998		1	X
PORTABLE HANDSET								
107	PQSX10043Z	**PQSX10043Y**	KEYBOARD SWITCH	1	7. 1997		1	X
E1	PQEFBDB111GP	**PQEFBDB111GX**	BUZZER	1	1. 1998		1	X
C416	----------	**ECUV1H030CC**	CAPACITOR, 3pF	1	7. 1998		5	
C495	----------	**MQLR10NJF**	COIL	1	7. 1998		5	

Reason for Change

Interchangeability Code

■ **SCHEMATIC DIAGRAM ..... Addition of the original pages 24 or 28.**

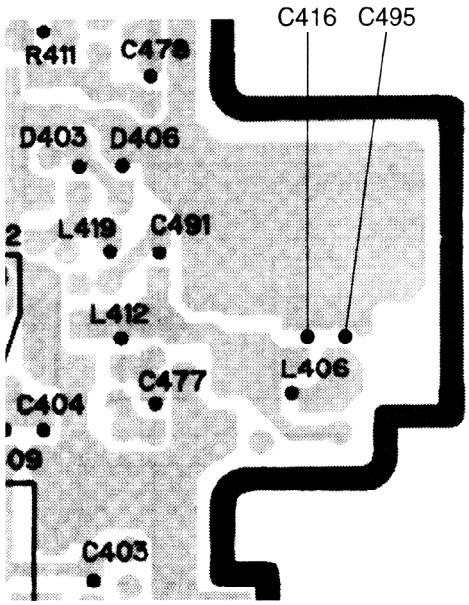
● Section 18/A-B



■ **PRINTED CIRCUIT BOARD ..... Addition of the original pages 26 or 30.**

Bottom View | C416, C495 |

● Section 12/G



ORDER NO. KM49612124C3

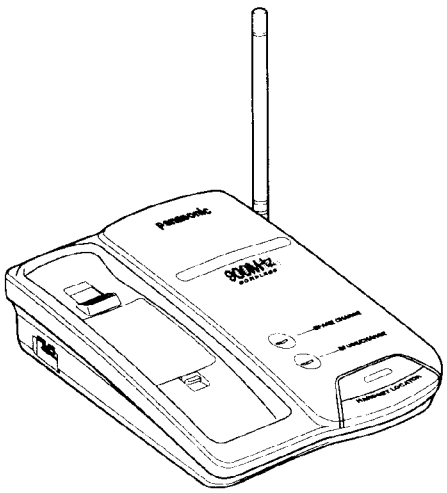
Service Manual

900MHz Cordless Phone

Telephone Equipment

KX-TC908BX

(for Asia, Middle Near East and Other areas)



(Model KX-TC908BXH)

(Model KX-TC908BXR)

SPECIFICATIONS/ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ
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ADJUSTMENT (KX-TC908BXR)/РЕГУЛИРОВКА (KX-TC908BXR)
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BLOCK DIAGRAMS (KX-TC908BXH)/БЛОК-СХЕМЫ (KX-TC908BXH)
BLOCK DIAGRAMS (KX-TC908BXR)/БЛОК-СХЕМЫ (KX-TC908BXR)
CABINET AND ELECTRICAL PARTS LOCATION (KX-TC908BXH)/РАСПОЛОЖЕНИЕ ЧАСТЕЙ КОРПУСА И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ (KX-TC908BXH)
CABINET AND ELECTRICAL PARTS LOCATION (KX-TC908BXR)/РАСПОЛОЖЕНИЕ ЧАСТЕЙ КОРПУСА И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ (KX-TC908BXR)
ACCESSORIES AND PACKING MATERIALS/ПРИНАДЛЕЖНОСТИ И УПАКОВОЧНЫЕ МАТЕРИАЛЫ
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REPLACEMENT PARTS LIST (KX-TC908BXH)/СПИСОК ЗАПАСНЫХ ЧАСТЕЙ (KX-TC908BXH)
REPLACEMENT PARTS LIST (KX-TC908BXR)/СПИСОК ЗАПАСНЫХ ЧАСТЕЙ (KX-TC908BXR)

Panasonic

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■ SPECIFICATIONS

	Base Unit (KX-TC908BXH)	Portable Handset (KX-TC908BXR)
Power Source:	AC Adaptor (KX-A11BMX)	Rechargeable Ni - Cd battery
Receiving Frequency:	40 channels within 814~815 MHz	40 channels within 904~905 MHz
Receiving Method:	Double super heterodyne	Double super heterodyne
Transmitting Frequency:	40 channels within 904~905 MHz	40 channels within 814~815 MHz
Oscillation Method:	PLL synthesizer	PLL synthesizer
Detecting Method:	Quadrature Discriminator	Quadrature Discriminator
Tolerance of OSC Frequency:	±3.6 kHz	±3.6 kHz
Modulation Method:	F3 (frequency modulation)	F3 (frequency modulation)
ID Code:	20-bit	20-bit
Dial Mode:		Tone (DTMF)/Pulse
Redial:		Up to 30 digits
Save:		Up to 30 digits
Power Consumption:		14 days at Standby, 4.5 hours at Talk
Dimension (H×W×D):	$2^{11}/_{32}$"×$6^{11}/_{32}$"×$8^{1}/_{4}$" (60×161×210 mm)	$10^{1}/_{4}$"×$2^{8}/_{16}$"×$1^{9}/_{16}$" (260×56×40 mm)
Weight	0.92 lbs. (419 g) with spare battery	0.47 lbs. (214g) with battery

Design and specifications are subject to change without notice.

DISASSEMBLY INSTRUCTIONS

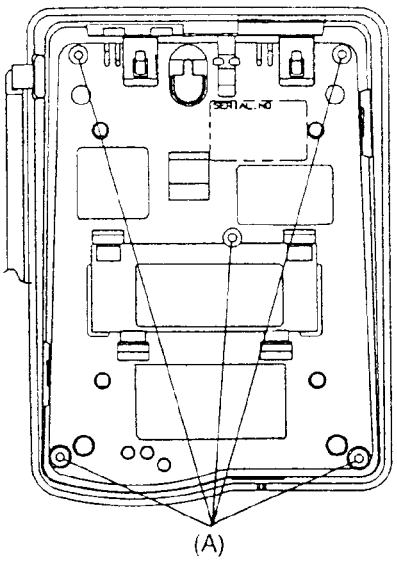


Fig.5

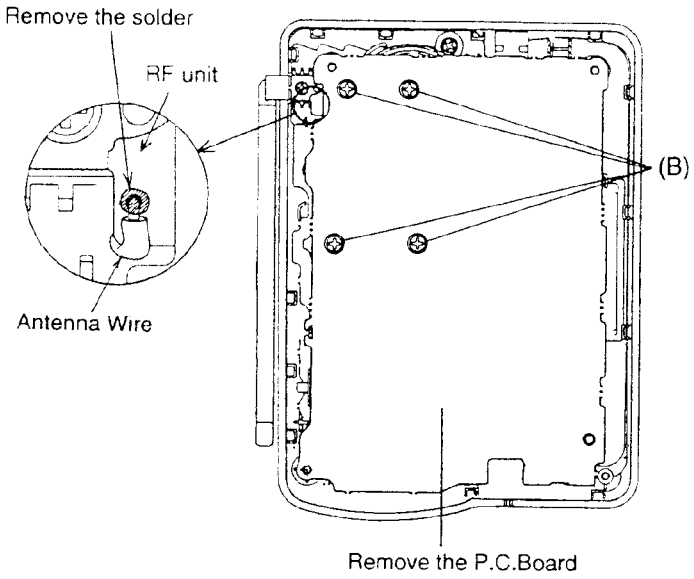


Fig.6

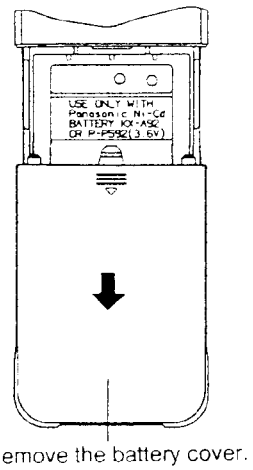


Fig.7

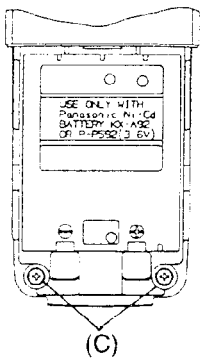


Fig.8

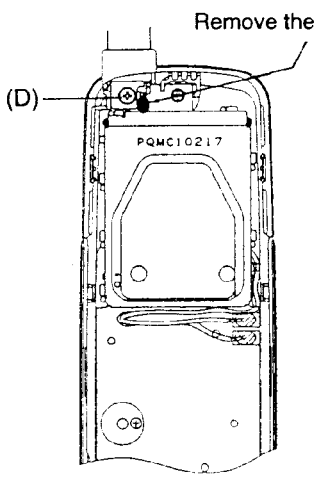


Fig.9

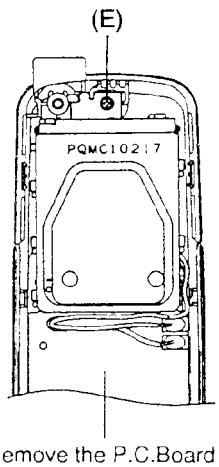


Fig.10

Ref No.	Procedure	Shown in Fig. –	To Remove	Remove
1	1	5	Lower Cabinet	Screws (3 × 14) ..... (A) × 5
2	1, 2	6	Main P.C. Board	Remove the P.C. Board
3	1~3		RF Unit	Screws (7.6 × 8) ..... (B) × 4
4	1~4	7	Battery Cover	Remove the Battery Cover
5	5	8	Rear Cabinet	Screws (2.6 × 12) ..... (C) × 2
6	5, 6	9	Antenna	Screw (2.6 × 12) ..... (D) × 1
7	5~7	10	P.C. Board	Screw (2.6 × 12) ..... (E) × 1

ADJUSTMENT (KX-TC908BXH)

After servicing the RF unit, never make adjustments without assembling the upper RF unit cover and the lower RF unit cover with solder.

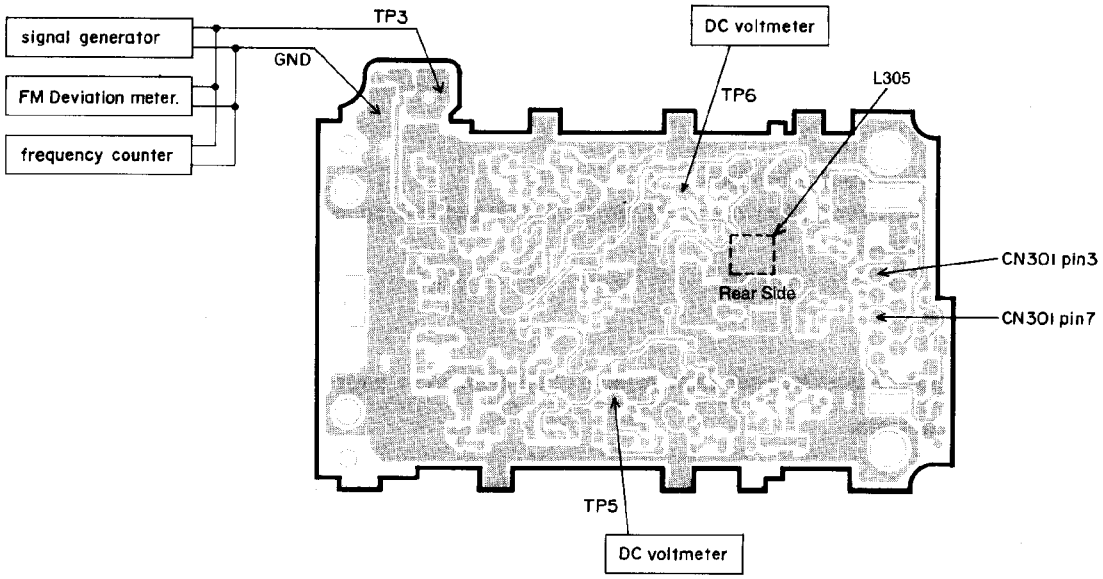
Adjustment Preparations

1. Connect the main P.C. Board to RF unit by the extension cord (Part No. PQZZ12K13Z).
2. Short TP1 and TP2 in the base unit by diode.
3. Connect a distortion meter (with AC voltmeter) to the telephone line output on the base unit.
3. Connect the AC adaptor to the AC jack of base unit.
4. Press twice LOCATOR/INTERCOM button on the base unit. Then changes to Test Mode (CH1 Talk mode).

If your unit have below symptom, adjust for each item as table of adjustment on pages 6, 7.

Symptom	Remedy
Dose not link between base unit and portable handset.	Adjust the adjustment items (A), (B), (D) and (F).
The sound quality is wrong.	Adjust the adjustment item (C).
Transmission sound for portable handset receiver is unstable.	Adjust the adjustment items (E) and(G).

Item	Adjustment Item	Procedure
(A)	RX VCO Voltage Confirmation	Place the DC voltmeter probe at TP5 and confirm so that the reading of DC voltmeter is 0.8 V~1.8 V.
(B)	TX VCO Voltage Confirmation	Place the DC voltmeter probe at TP6 and confirm so that the reading of DC voltmeter is 0.8 V~1.8 V.
(C)	Detective Coil Adjustment	Connect the signal generator (814.0125 MHz, 1 kHz modulation frequency, 5 kHz modulation +60 dBμV emf output level) to the RF unit TP3 and GND. Adjust L305 so that the reading of AC voltmeter to the maximum level at CN301 pin 3.
(D)	20 dB Electric Detective Adjustment	Set the signal generator so that the distortion and noise of telephone line output is 25%-35%. Adjust VR301 so that CN301 pin 7 is set the point that iterate high and low.
(E)	TX Adjustment	Connect the signal generator (814.0125 MHz, 1 kHz modulation frequency, 5 kHz modulation +60 dBμV emf output level) to the RF unit TP3 and GND. Adjust VR1 so that the Tel Line output (600Ω Load) is set to -10 dBm by AF VTVM.
(F)	RX Adjustment	Connect the signal generator (814.0125 MHz, modulation OFF, +60 dBμV emf output level) to the RF unit TP3 and GND. And connect AF OSC (-30 dBm, 1 kHz) to the loop simulator. Adjust VR2 so that depth of modulation is 6.5 kHz deviation by FM Deviation meter.
(G)	Standard Frequency Adjustment	Connect the frequency counter and signal generator (814.0125 MHz, +60 dBμV emf unmodulation) to the RF unit TP3 and GND. Adjust VC301 so that the standard frequency will become within 904.0125 MHz ± 0.0005 MHz.


signal generator
FM Deviation meter.
frequency counter
GND
TP3
DC voltmeter
TP6
L305
CN301 pin3
CN301 pin7
Rear Side
TP5
DC voltmeter

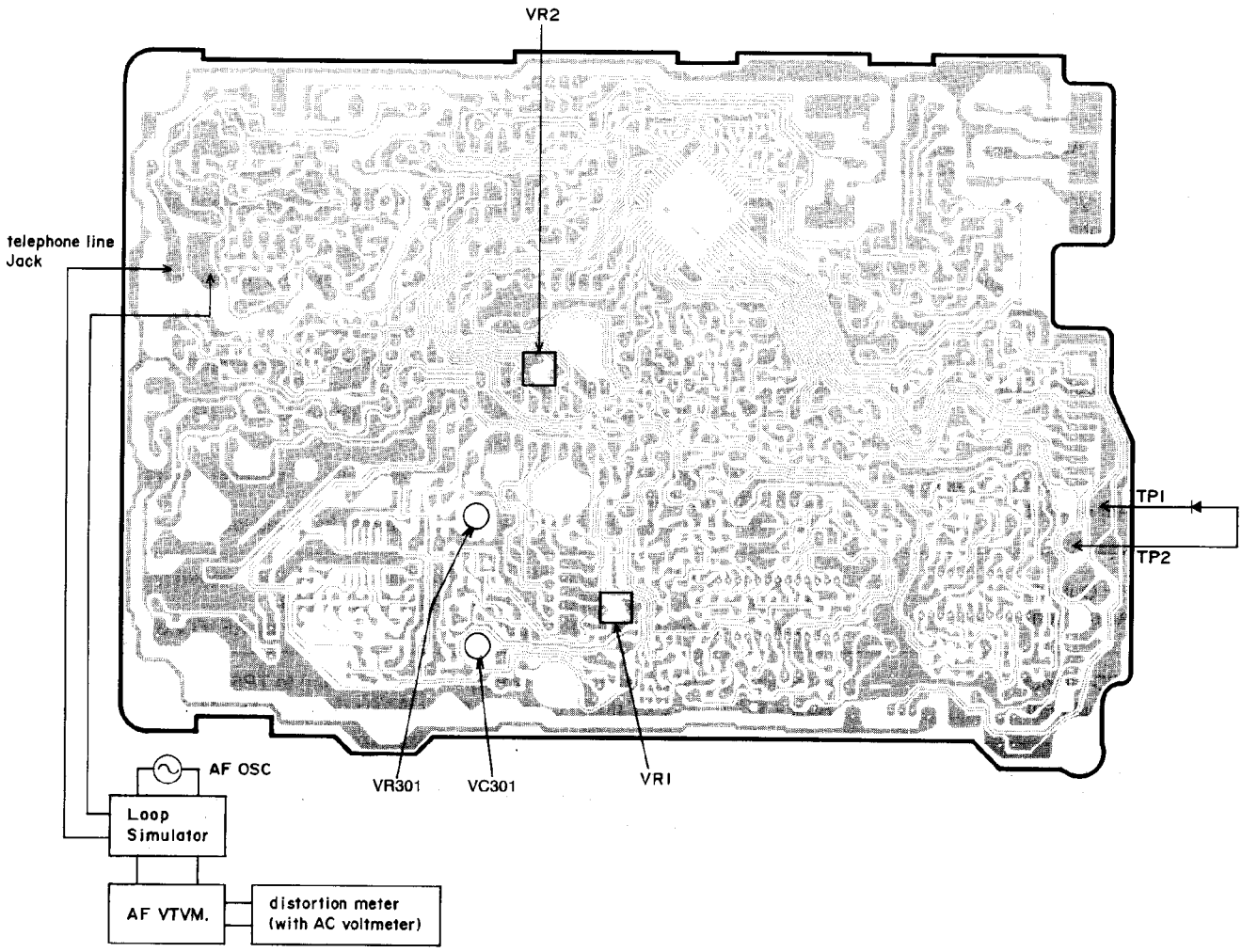

VR2
telephone line
Jack
TP1
TP2
AF OSC
Loop
Simulator
AF VTVM.
distortion meter
(with AC voltmeter)
VR301
VC301
VR1

Fig.11

ADJUSTMENT (KX-TC908BXR)

After servicing the RF part, never make adjustments without assembling the upper RF part cover and the lower RF part cover with solder.

Adjustment Preparations

1. Short TP1 and TP2 in the portable handset by diode.
2. Connect a distortion meter (with AC voltmeter) to the SPK terminals (TP3 and TP4) on the portable handset.
3. Connect 3.9 V to the battery terminals.
4. Press the INTERCOM switch and TALK switch of potable handset. Then changes to Test Mode (CH1 Talk mode).

If your unit have below symptom, adjust for each item as table of adjustment on pages 8, 9.

Symptom	Remedy
Dose not link between base unit and portable handset.	Adjust the adjustment items (A), (B), (D) and (G).
The sound quality is wrong.	Adjust the adjustment item (C).
Speaker level of portable handset is unstable.	Adjust the adjustment item (E).
Transmission sound for base unit receiver is unstable.	Adjust the adjustment item (G).

Item	Adjustment Item	
(A)	RX VCO Voltage Confirmation	Place the DC voltmeter probe at TP5 and confirm so that the reading of DC voltmeter is 0.8 V~2.0 V.
(B)	TX VCO Voltage Confirmation	Place the DC voltmeter probe at TP6 and confirm so that the reading of DC voltmeter is 0.8 V~2.0 V.
(C)	Detective Coil Adjustment	Connect a signal generator (904.0125 MHz, 1 kHz modulation frequency, 5 kHz modulation, +60 dBμV emf output level) to the RF part TP9. Adjust L405 so that the reading of AF VTVM is maximam level at TP10.
(D)	20 dB Electric Detective Adjustment	Set the signal generator so that the distortion and noise of speaker output is 25%~35% by distortion meter. Adjust VR401 so that TP7 is set the point that iterate high and low..
(E)	SP Output Adjustment	Connect a signal generator (904.0125 MHz, 1 kHz modulation frequency, 6 kHz modulation, +60 dBμV emf output level) to the RF part TP9. Adjust VR202 so that the SP output (TP3-TP4) is –15 dBm by AF VTVM.
(F)	MIC Output Adjustment	Connect a signal generator (1 kHz frequency,–30.5 dBm) to TP8. Adjust VR201 so that depth of modulation is 5 kHz deviation by FM Deviation meter.
(G)	Standard Frequency Adjustment	Connect the frequency counter and signal generator (904.0125 MHz, +60 dBμV emf, unmodulation) to TP9 and GND. Adjust VC401 so that the standard frequency will become within 814.0125 MHz ± 0.0005 MHz.

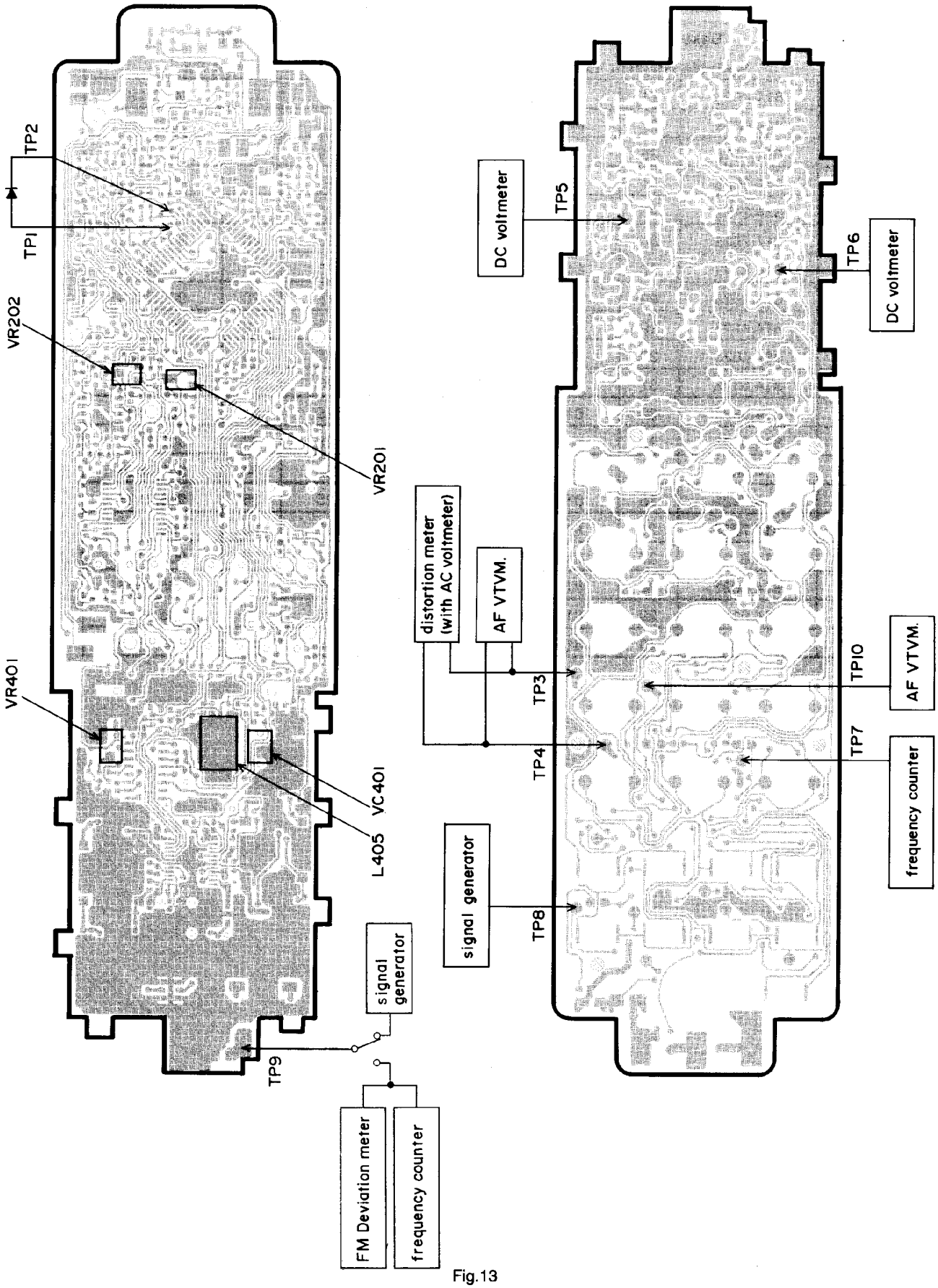

TP2
TP1
VR202
VR201
VR401
VC401
L405
TP9
signal generator
FM Deviation meter
frequency counter
DC voltmeter
TP5
TP6
DC voltmeter
distortion meter (with AC voltmeter)
AF VTVM.
TP3
TP4
TP10
AF VTVM.
TP7
frequency counter
signal generator
TP8

Fig.13

KX-TC908BX

FREQUENCY TABLE (MHz)

Base Unit RX Portable Handset TX				Base Unit TX Portable Handset RX			
1	814.0125	21	815.0125	1	904.0125	21	905.0125
2	814.0625	22	815.0625	2	904.0625	22	905.0625
3	814.1125	23	815.1125	3	904.1125	23	905.1125
4	814.1625	24	815.1625	4	904.1625	24	905.1625
5	814.2125	25	815.2125	5	904.2125	25	905.2125
6	814.2625	26	815.2625	6	904.2625	26	905.2625
7	814.3125	27	815.3125	7	904.3125	27	905.3125
8	814.3625	28	815.3625	8	904.3625	28	905.3625
9	814.4125	29	815.4125	9	904.4125	29	905.4125
10	814.4625	30	815.4625	10	904.4625	30	905.4625
11	814.5125	31	815.5125	11	904.5125	31	905.5125
12	814.5625	32	815.5625	12	904.5625	32	905.5625
13	814.6125	33	815.6125	13	904.6125	33	905.6125
14	814.6625	34	815.6625	14	904.6625	34	905.6625
15	814.7125	35	815.7125	15	904.7125	35	905.7125
16	814.7625	36	815.7625	16	904.7625	36	905.7625
17	814.8125	37	815.8125	17	904.8125	37	905.8125
18	814.8625	38	815.8625	18	904.8625	38	905.8625
19	814.9125	39	815.9125	19	904.9125	39	905.9125
20	814.9625	40	815.9625	20	904.9625	40	905.9625

CPU DATA KX-TC908BXH (Base Unit)

IC1 PQVI25084H88

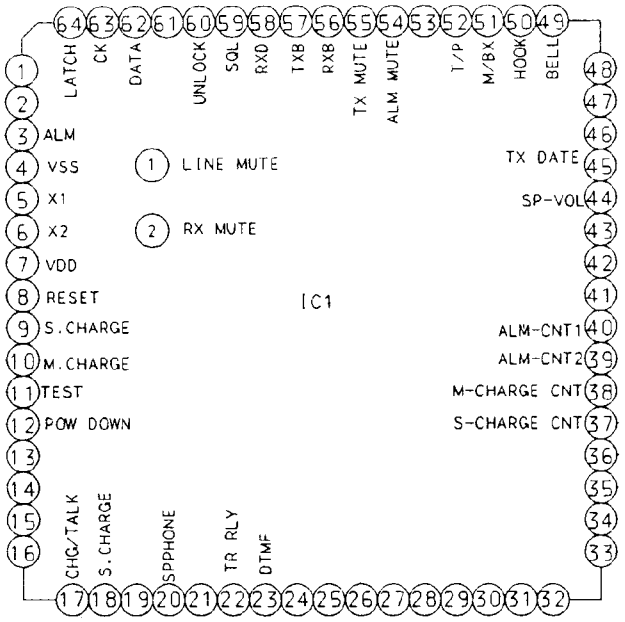


Fig.13

Pin	Description	I/O	High	Low	High-Z	Pin	Description	I/O	High	Low	High-Z
1	LINE MUTE	O	MUTE			33	KEY (OPTION) INPUT	I		IN	-
2	RX MUTE	O	MUTE		-	34	KEY (OPTION) INPUT	I		IN	-
3	ALARM	O			-	35	KEY (OPTION) INPUT	I		IN	-
4	GND					36	KEY (OPTION) INPUT	I		IN	-
5	OSC1					37	S. CHARGE CTL	O	0.1C	0.03C	-
6	OSC2					38	Not Used				
7	VDD					39	ALARM VOL. 1	O	-		
8	RESET	I		RESET		40	ALARM VOL. 2	O	-		
9	S. CHARGE	I		-	CHARGE	41	Not Used				
10	M.CHARGE	I		-	CHARGE	42	Not used				
11	TEST	I	-	NOMAL	-	43	Not Used				
12	POWER DOW	I		DOWN	-	44	Not Used				
13	Not Used					45	Not Used				
14	Not Used					46	Not Used				
15	Not Used					47	Not Used				
16	Not Used					48	TX DATA 1 (ID)	O			-
17	INUSE/CHARGE LED	O	-	ON	-	49	BELL	I		BELL	-
18	S. CHARGE LED	O	-	ON	-	50	EXT HOOK	I	HOOK		-
19	Not Used					51	M/BX OPTION	I	NORMAL		
20	Not Used					52	T/P OPTION	I	PULSE	TONE	
21	Not Used					53	Not Used				
22	DIAL PULSE	O	BREAK	MAKE		54	ALARM MUTE	O	MUTE		
23	DTMF	O				55	TX MUTE	O	MUTE		
24	Not Used					56	RX POWER	O	-	ON	
25	Not Used					57	TX POWER	O	-	ON	
26	Not Used					58	RX DATA	I			-
27	Not Used					59	FLS (20)	I		ENABLE	-
28	Not Used					60	PLL UNLOCK	I	UNLOCK		-
29	STROBE 6 (KEY)	O	-			61	———	I	-	NOMAL	-
30	STROBE 5 (KEY)	O	-			62	PLL DATA	O			-
31	Not Used					63	PLL CLOCK	O			-
32	Not Used					64	PLL ST	O	OFF	ON	-

CPU DATA KX-TC908BXR (Portable Unit)

IC201 MN151233KZAC

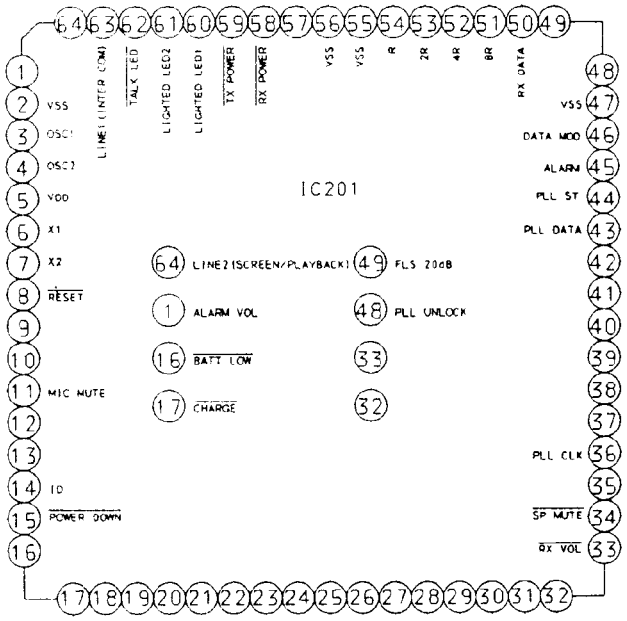
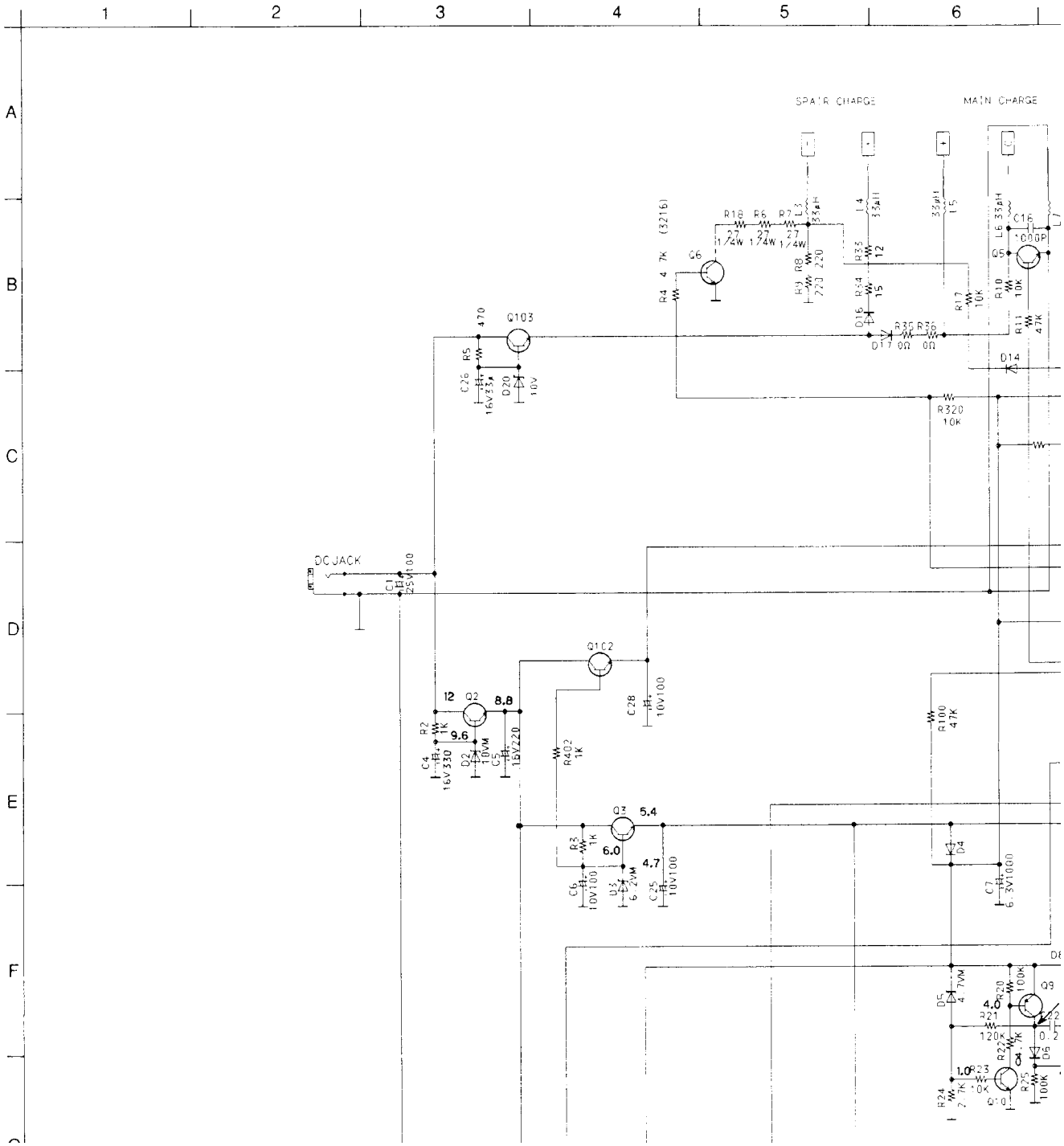
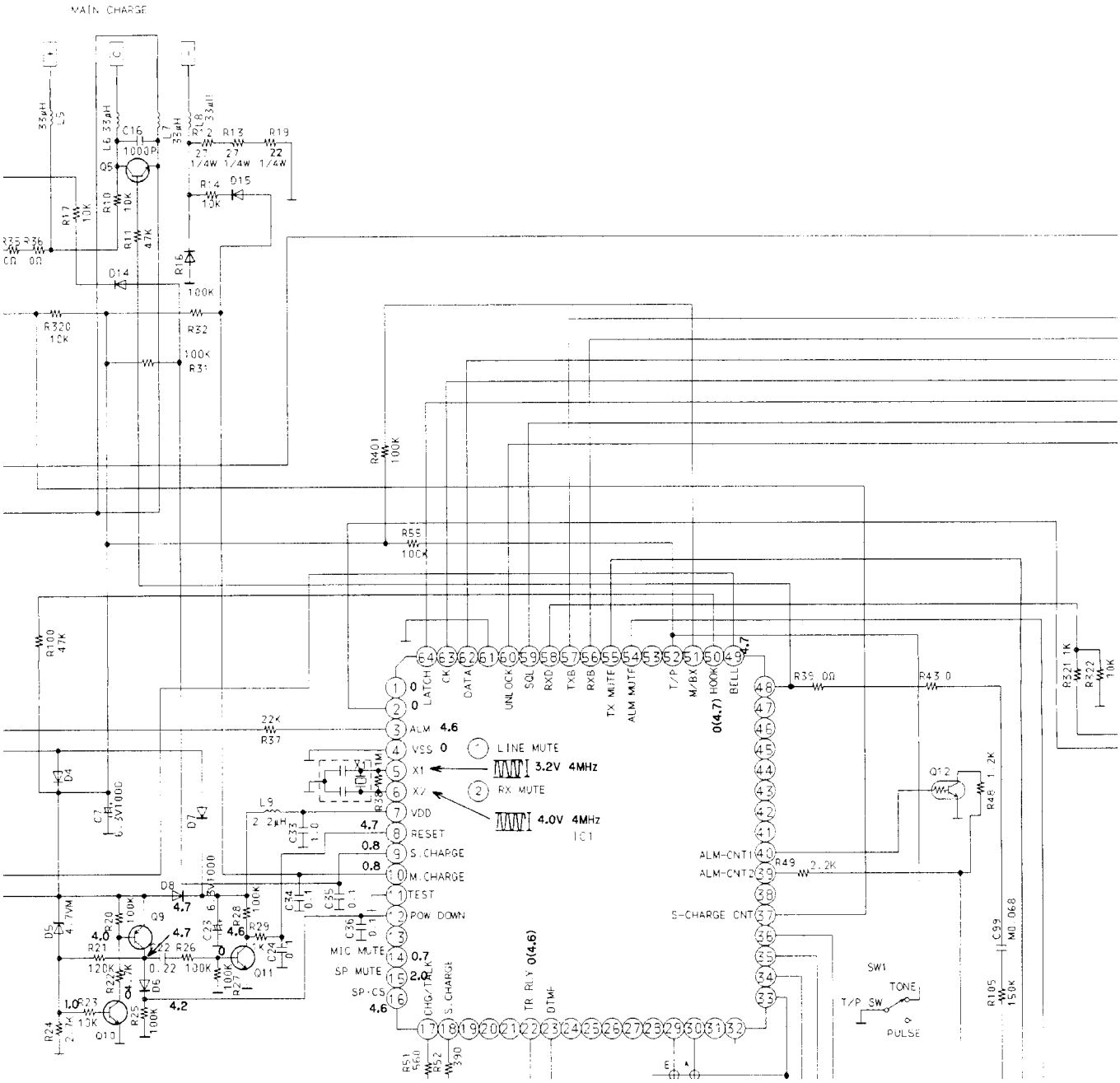


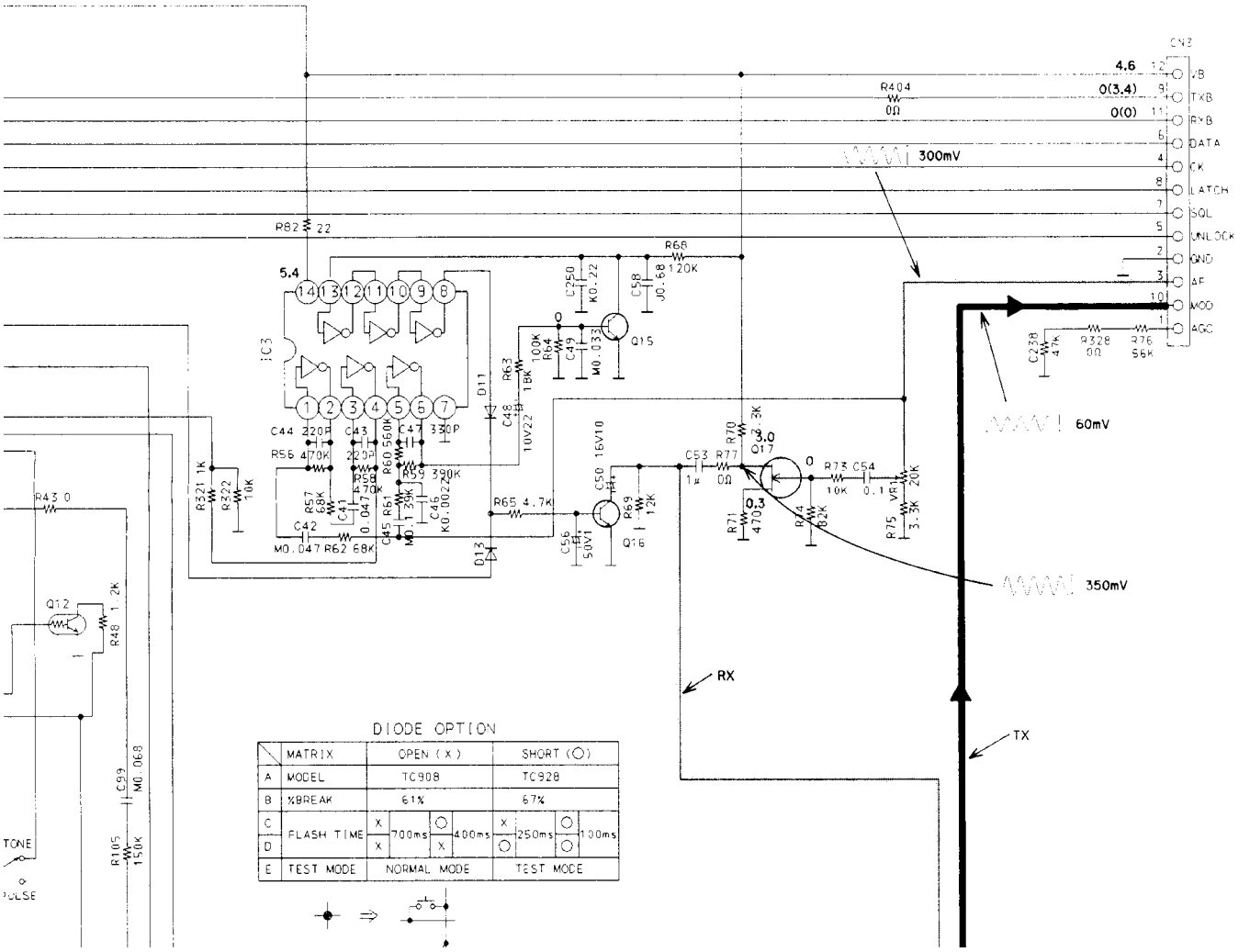
Fig.14

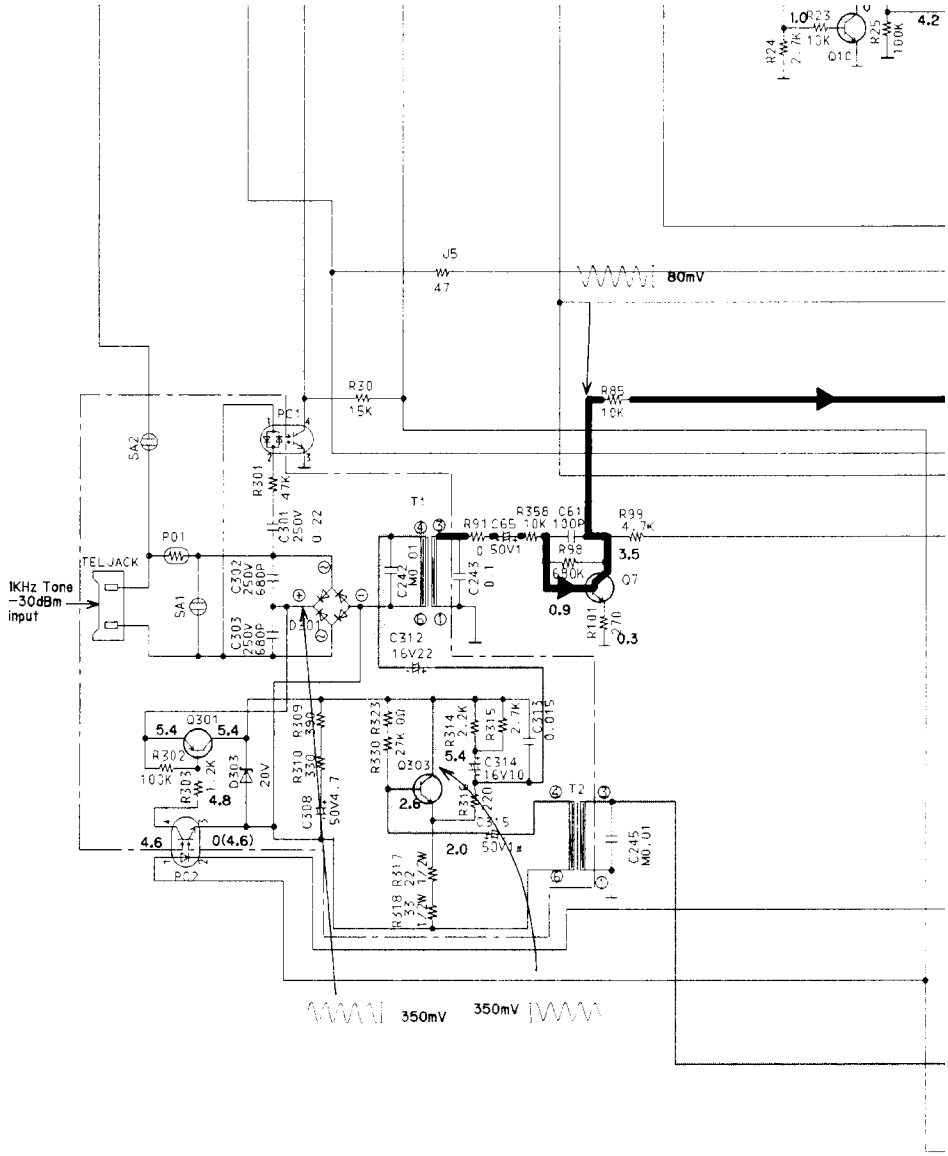
Pin	Description	I/O	High	Low	High-Z	Pin	Description	I/O	High	Low	High-Z
1	ALARM VOL.	O	-	HIGH	LOW	33	RECEPTION VOL.	O	NORMAL	HIGH	-
2	VSS					34	SP-MUTE	O		MUTE	-
3	OSC 1					35		O	-	○	-
4	OSC 2					36	PLL-CLOCK	O			
5	VDD					37	Not Used				
6	XI					38	Not Used				
7	XO					39	Not Used				
8	RESET	I		(RESET)		40	Not Used				
9	Not Used					41	SIRQ	I			-
10	Not Used					42	IRQ	I			-
11	MIC MUTE	O	MUTE		-	43	PLL DATA	O			-
12	Not Used					44	PLL ST	O		ON	-
13	Not Used					45	ALARM	O			-
14	ID (CTL)	I			-	46	Not Used				
15	POWER DOWN	I		DOWN	-	47		I			-
16	BATT. LOW	I		LOW	-	48	PLL-UNLOCK	I	UNLOCK		-
17	CHARGE	I		CHARGE	-	49	FLS (20)	I		ENABLE	-
18	Not Used					50	RX DATA	I			-
19	Not Used					51	(TX DATA 4)	O			-
20	Not Used					52	(TX DATA 3)	O			-
21	STROBE 8 (OPTION)	O	-			53	TX DATA 2	O			-
22	STROBE 7 (OPTION)	O	-			54	TX DATA 1	O			-
23	STROBE 6 (KEY)	O	-			55		I			-
24	STROBE 5 (KEY)	O	-			56		I			-
25	STROBE 4 (KEY)	O	-			57	Not Used				
26	STROBE 3 (KEY)	O	-			58	RX POWER	O	-	ON	
27	STROBE 2 (KEY)	O	-			59	TX POWER	O	-	ON	
28	STROBE 1 (KEY)	O	-			60	LIGHTED LED 1	O	-	ON	
29	KEY (OPTION) INPUT	I		IN	-	61	LIGHTED LED 2	O	-	ON	
30	KEY (OPTION) INPUT	I		IN	-	62	TALK LED	O	-	ON	
31	KEY (OPTION) INPUT	I		IN	-	63	(INTCOM) LED	O	-	ON	
32	KEY (OPTION) INPUT	I		IN	-	64	(SCREEN) LED	O	-	ON	


1
2
3
4
5
6
A
B
C
D
E
F
SPARE CHARGE
MAIN CHARGE
DC JACK
Q103
Q102
Q2
Q3
Q6
Q5
Q9
R4 4.7K (3216)
R320 10K
R100 47K
R402 1K
R10 10K
R11 47K
R17 10K
R35 12
R34 15
R36 0Ω
R37 0Ω
R20 100K
R21 120K
R23 1.0K
R24 2.7K
R25 100K
C1 25V100
C2 10V100
C4 16V330
C5 16V220
C6 10V100
C7 6.3V1000
C16 0.01P
C25 10V100
C26 16V33μ
C28 10V100
D2 10V1M
D3 6.2V1M
D4
D5 4.7V1M
D6
D14
D16
D17
D20 10V
12
8.8
9.6
5.4
6.0
4.7
4.0
1.0

SCHEMATIC DIAGRAM (KX-TC908BXH)




11
12
13
14
15
16
17
CN2
4.6
0(3.4)
0(0)
VB
TXB
RXB
DATA
CK
LATCH
SQL
UNLOCK
GND
AF
MOD
AGC
R404
0Ω
300mV
R82 22
5.4
IC3
R68 120K
C250 K0.22
C58 J0.68
Q15
R63 18K
R64 100K
C49
M0.033
C48 10V22
D11
C44 220P
C43
C47 330P
R56 470K
R60 560K
R59 390K
C42 M0.047
R62 68K
C41 0.047
C45 M0.1
C46 K0.0022
D13
R65 4.7K
C50 16V10
R69 12K
C56 6.8 50V1
Q16
C53 1μ
R77 0Ω
R70 2.3K
Q17
3.0
0.3
R71 470Ω
R74 82K
R73 10K
C54 0.1
VR1
R75 3.3K
R76 56K
R328 0Ω
C238 47K
60mV
350mV
RX
TX
R321 1K
R322 10K
R43 0
Q12
R48 1.2K
C99 M0.068
R105 150K
TONE
PULSE
DIODE OPTION
	MATRIX	OPEN (X)	SHORT (○)
A	MODEL	TC908	TC928
B	%BREAK	61%	67%
C	FLASH TIME	X 700ms ○ 400ms	X 250ms ○ 100ms
D		X ○	○ ○
E	TEST MODE	NORMAL MODE	TEST MODE

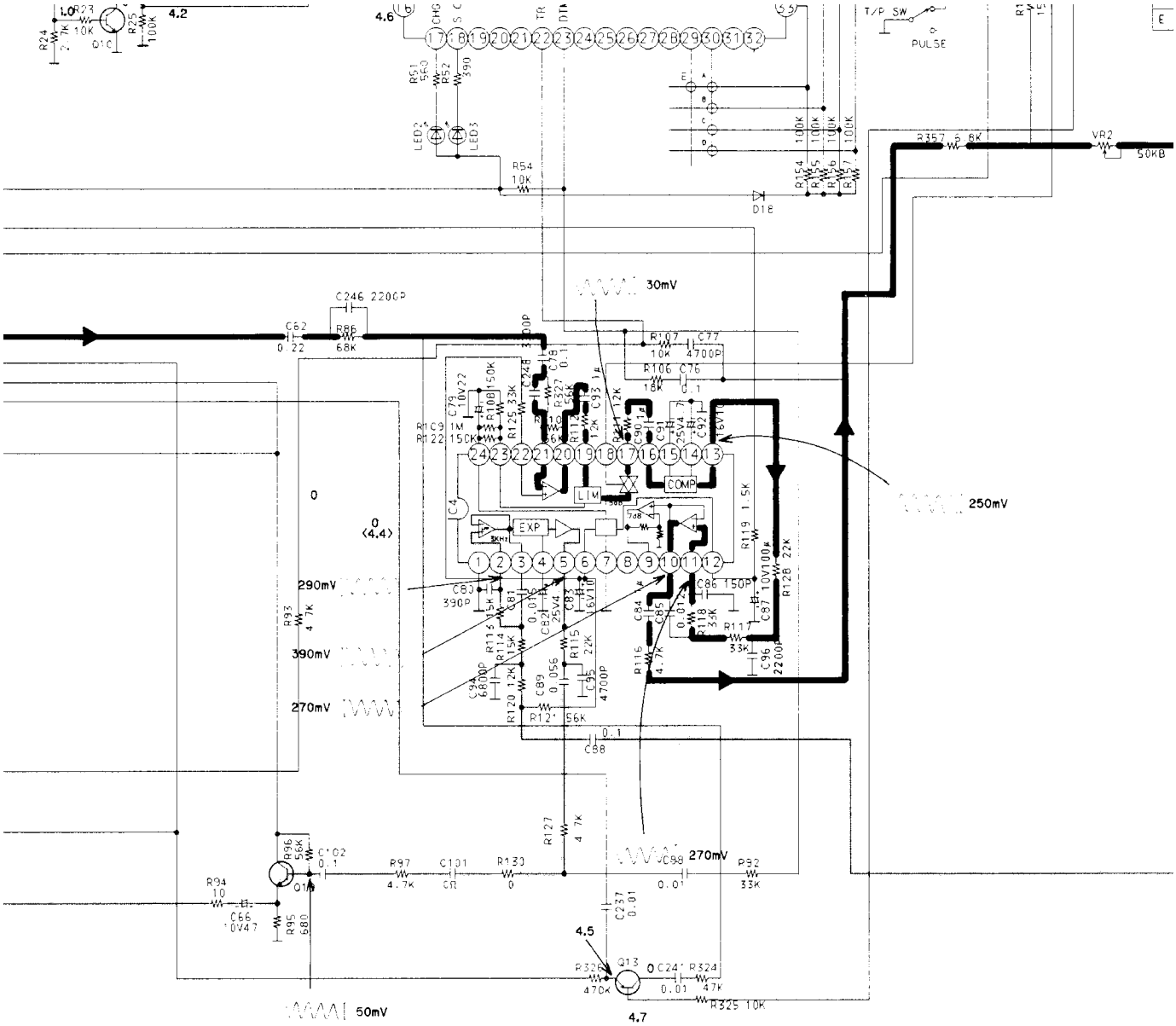


Notes:

1. SW1: Dialing Mode Selector Switch
2. S3: Handset Locator Switch

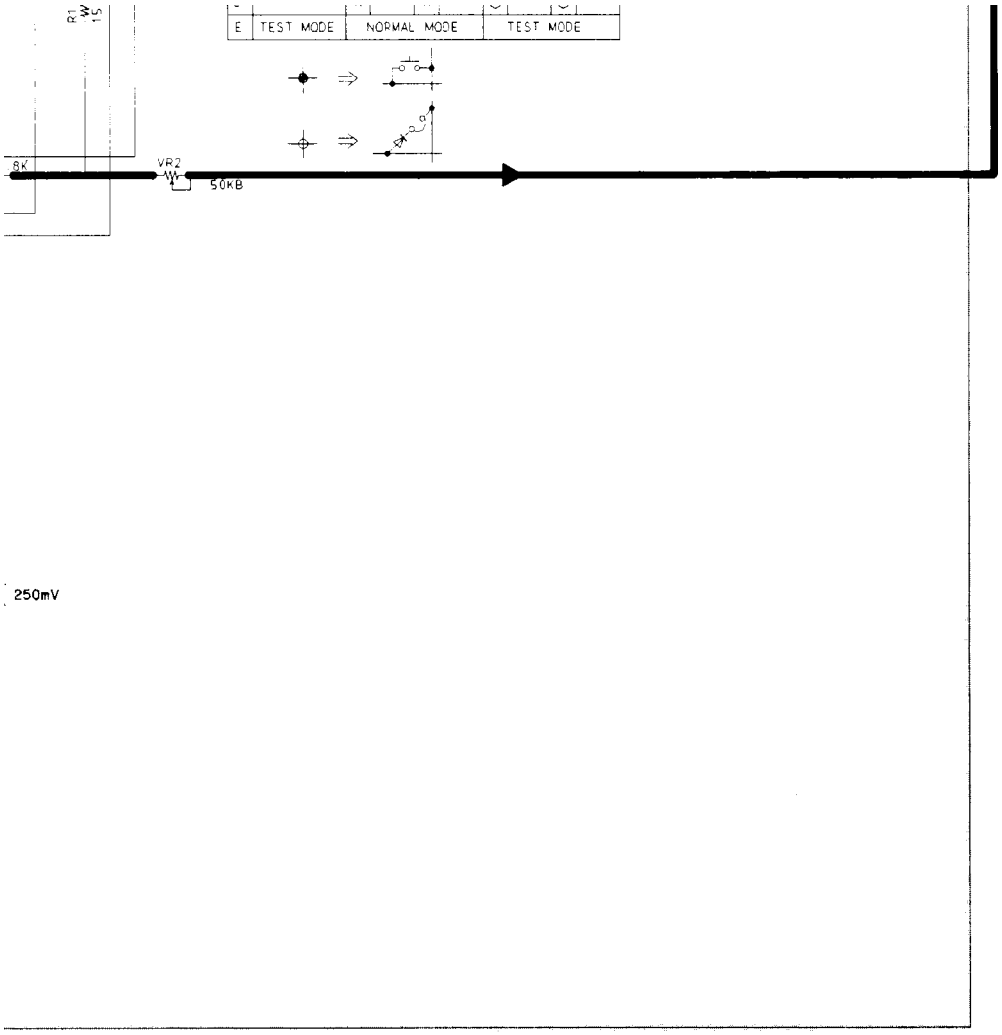
3. DC voltage measurements are taken with voltmeter from the negative voltage line.
   No Mark: Talk position
   ( ) : Standby position

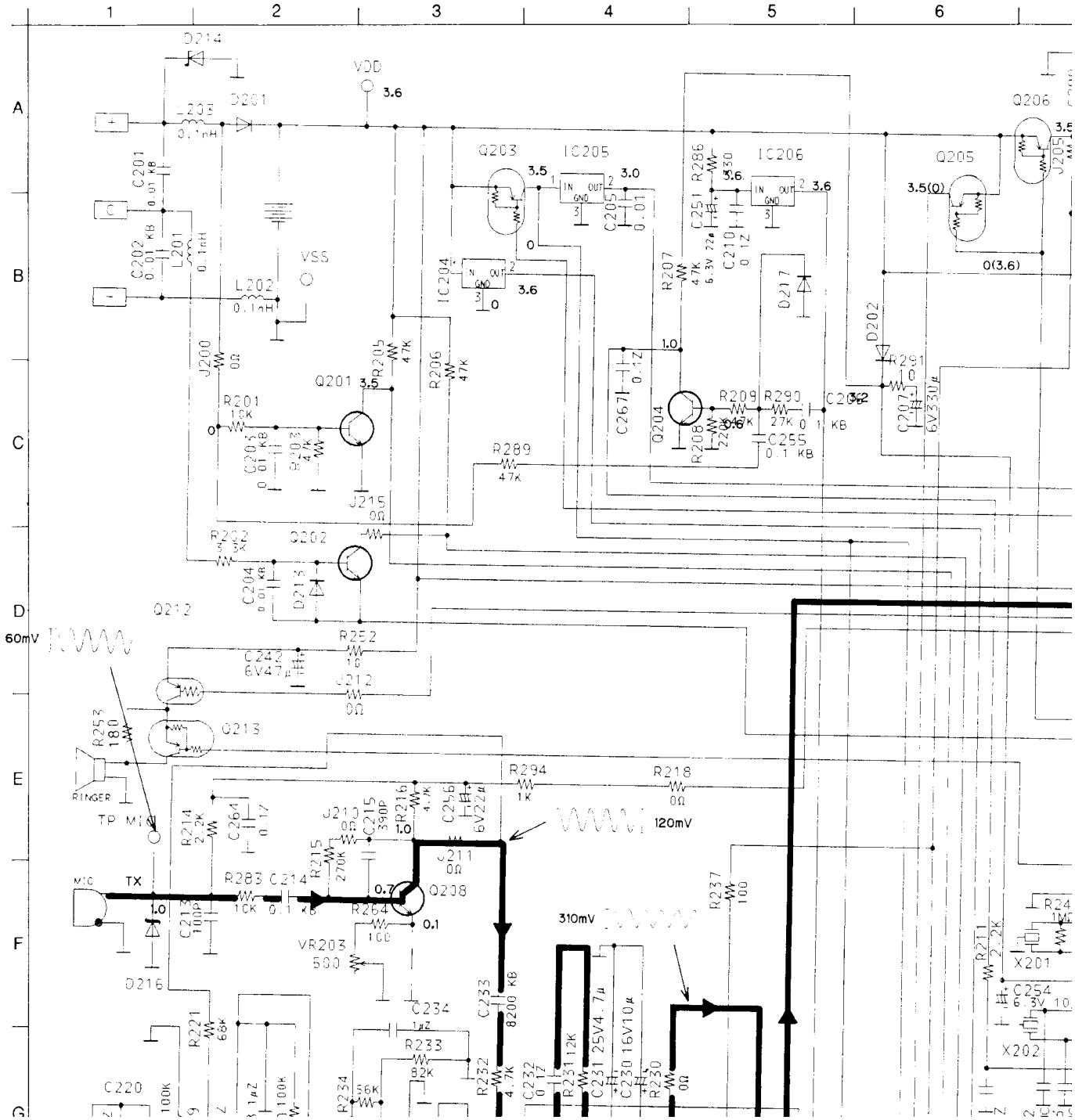
Important safety notice
Components identified
important for safety. W
use only manufacturer'



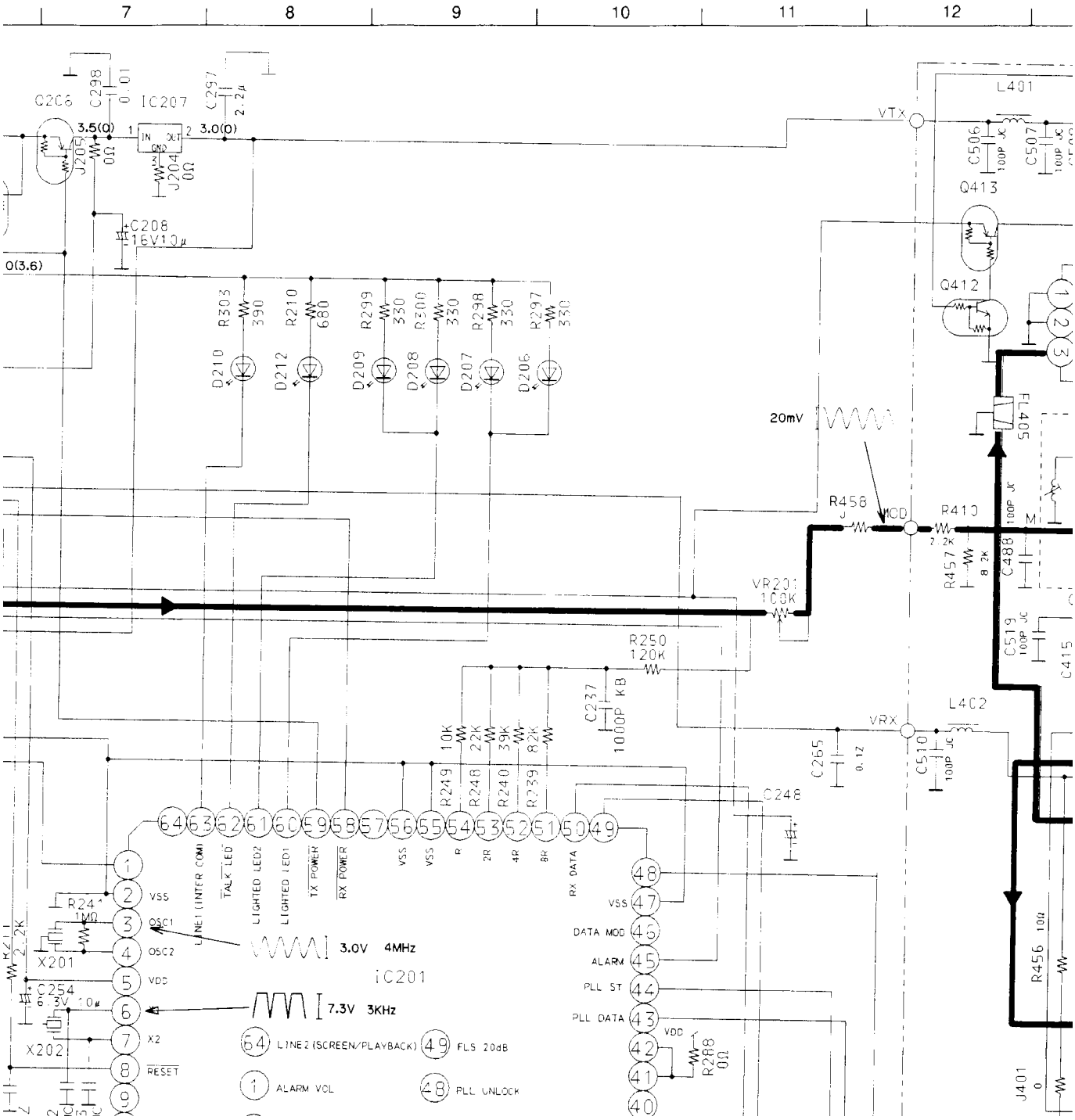
mportant safety notice
Components identified by ⚠ mark have special characteristics mportant for safety. When replacing any of these components, use only manufacturer's specified parts.

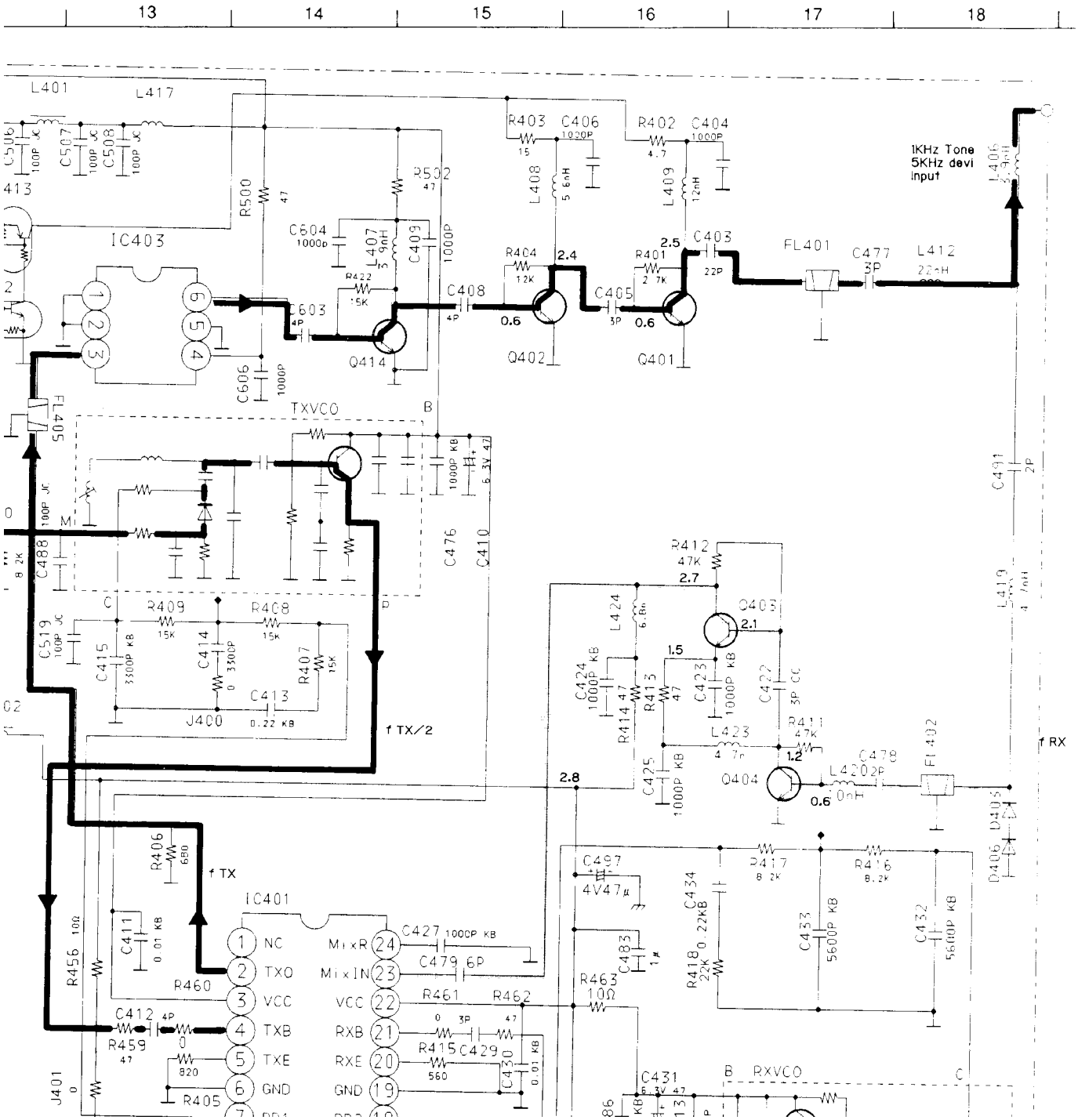
This schematic diagram may be modified at any time with the development of new technology.

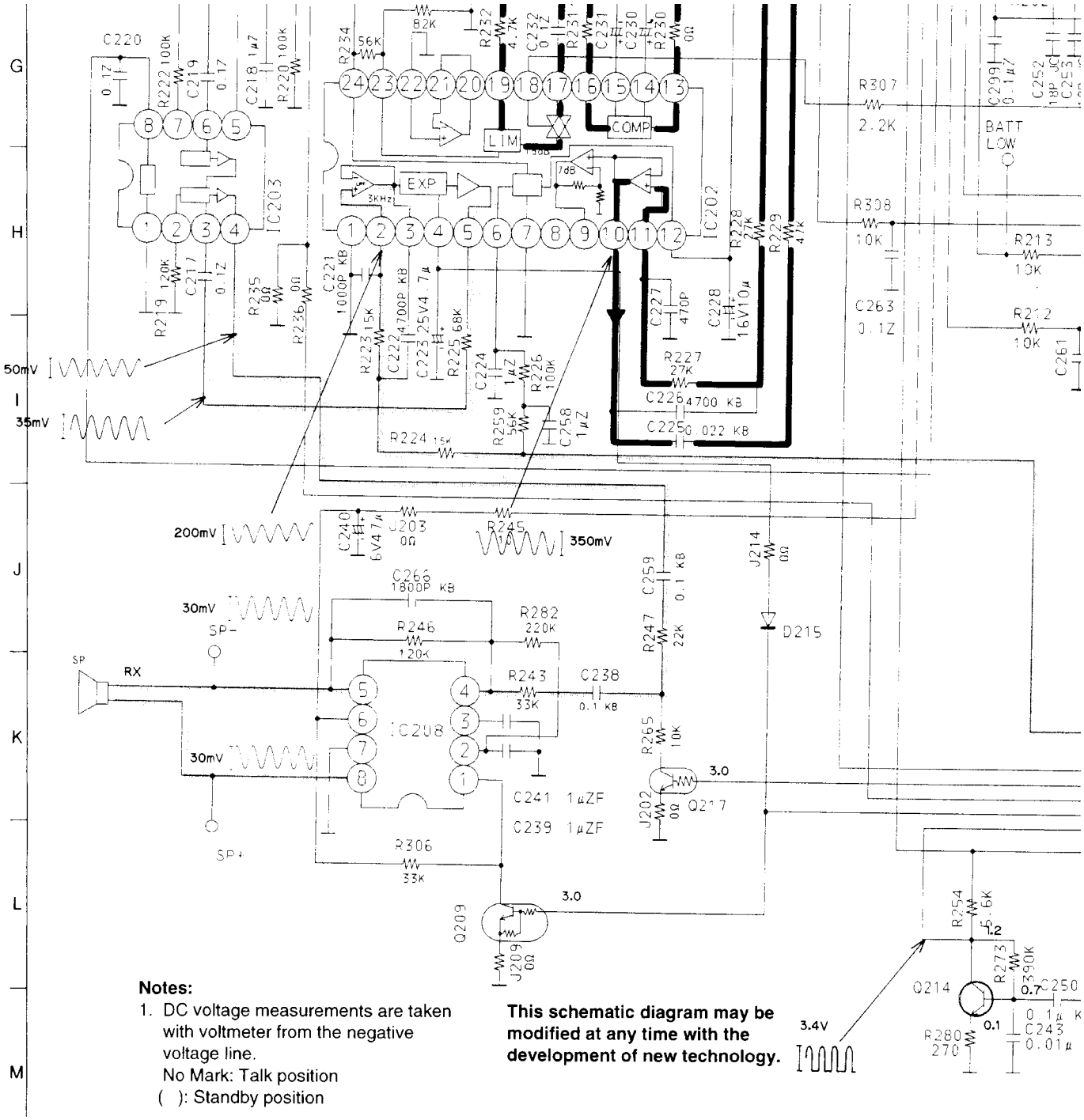

R1
15
E
TEST MODE
NORMAL MODE
TEST MODE
8K
VR2
50KB
250mV


1
2
3
4
5
6
A
B
C
D
E
F
G
D214
D201
VDD
3.6
L203
0.1nH
C201
0.01 KB
C202
0.01 KB
L201
0.1nH
VSS
L202
0.1nH
J200
0Ω
R201
10K
C203
0.01 KB
R203
47K
Q201
3.5
R205
47K
R206
47K
J215
0Ω
R202
3.3K
C204
0.01 KB
D213
Q202
Q212
60mV
C242
6V47μ
R252
10
J212
0Ω
Q213
R253
180
RINGER
TP MIC
R214
2.2K
C264
0.1
C210
0Ω
C215
390P
R216
4.7K
C256
6V22μ
R215
270K
C211
0Ω
Q208
R283
10K
C214
0.1 KB
R264
100
0.1
VR203
500
C213
100P
D216
R221
68K
C220
100K
C234
1μ2
R233
82K
R232
4.7K
R234
56K
C233
8200 KB
C232
0.1
R231
12K
C231
25V4.7μ
C230
16V10μ
R230
0Ω
310mV
R237
100
120mV
R294
1K
R218
0Ω
IC204
IC205
IC206
Q203
3.5
3.0
C205
0.01
0
3.6
C251
R286
6.3V 22μ
C210
0.1Z
Q206
Q205
3.5(Q)
0(3.6)
D217
D202
R207
47K
C267
0.1Z
1.0
Q204
R208
R209
R290
27K
C255
0.1 KB
R289
47K
R291
C207
6V330μ
R211
2.2K
X201
C254
6.3V 10
X202

SCHEMATIC DIAGRAM (KX-TC908BXR)



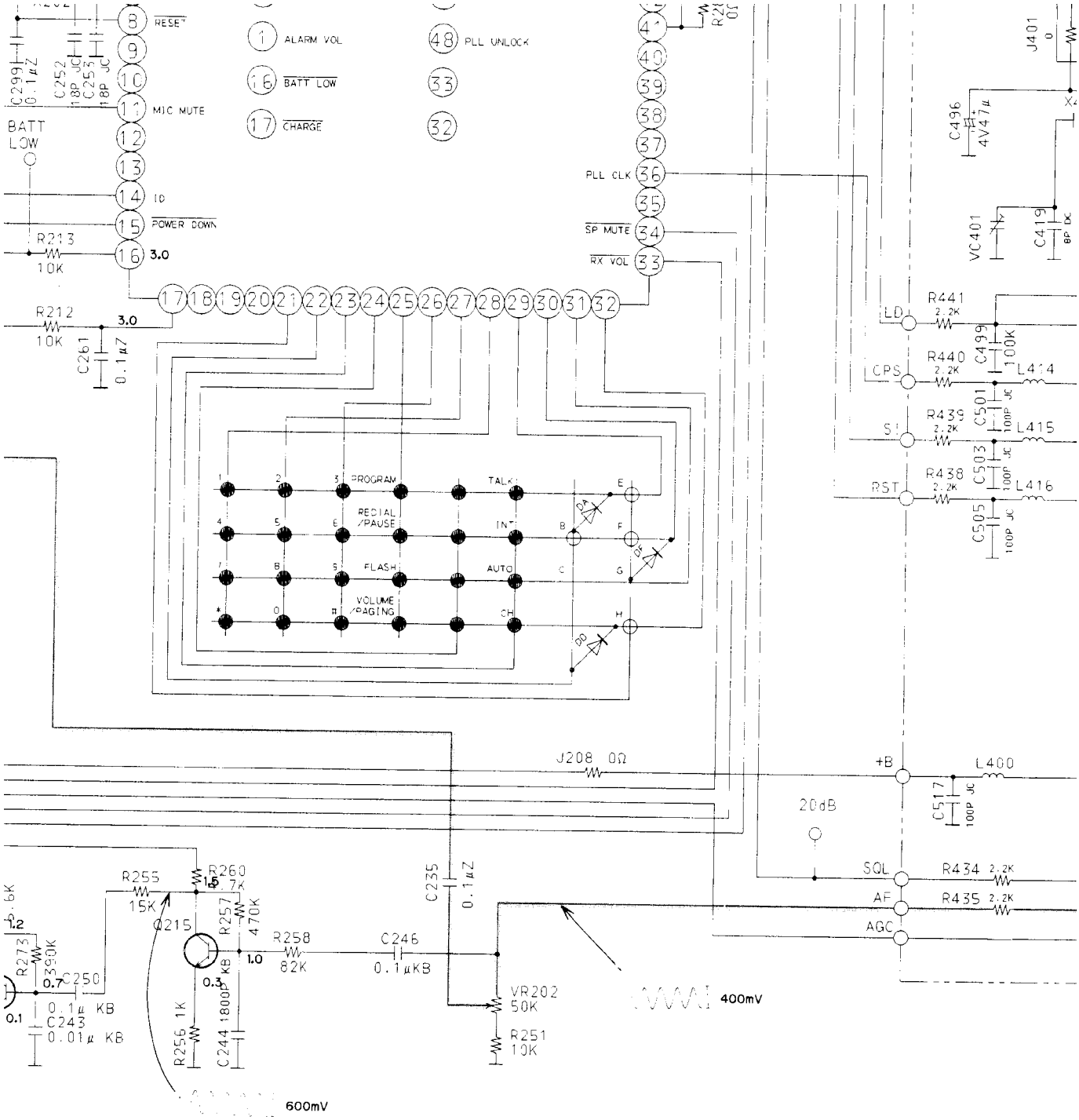

13
14
15
16
17
18
L401
L417
IC403
R500
R502
C604
C603
C606
C409
C408
C407
R422
Q414
R403
C406
L408
R402
C404
L409
R404
R401
C405
C403
Q402
Q401
FL401
C477
L412
1KHz Tone
5KHz devi
input
TXVCO
FL405
C488
C476
C410
C491
L419
R409
R408
C519
C415
C414
C413
R407
J400
f TX/2
R412
47K
Q403
L424
C424
R414
R413
C423
C422
L423
R411
47K
Q404
C478
L420
FL402
D405
D406
f RX
C425
2.8
f TX
R406
680
IC401
C411
R456
R460
C412
R459
R461
R462
C427
C479
C497
4V47µ
C483
R463
10Ω
R417
R416
C434
R418
22K
C433
5600P KB
C432
5600P KB
J401
R405
820
C429
R415
560
C430
C431
B
RXVCO
C
NC
TXO
VCC
TXB
TXE
GND
MixR
MixIN
VCC
RXB
RXE
GND

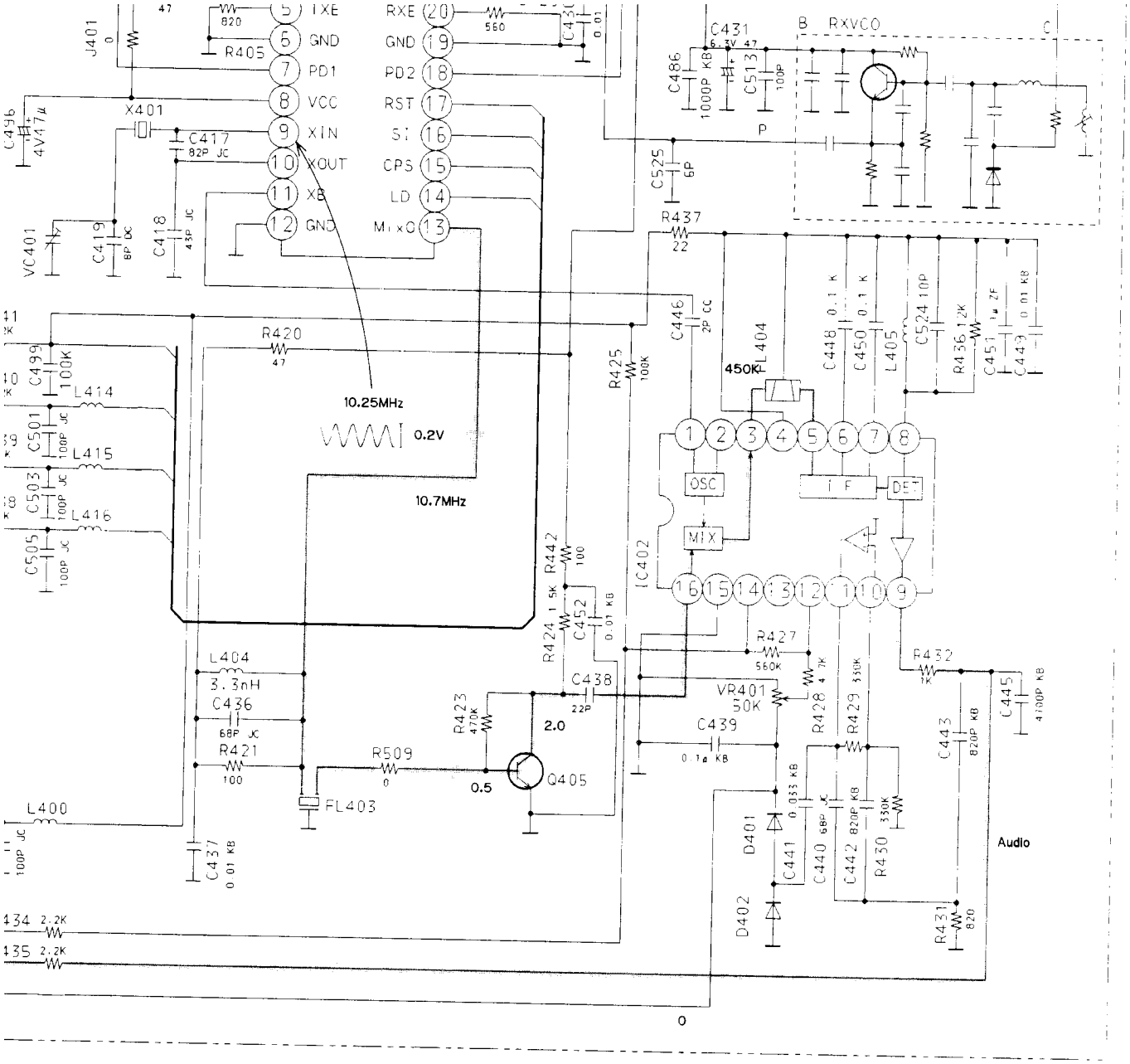


Notes:

1. DC voltage measurements are taken with voltmeter from the negative voltage line.
   No Mark: Talk position
   ( ): Standby position

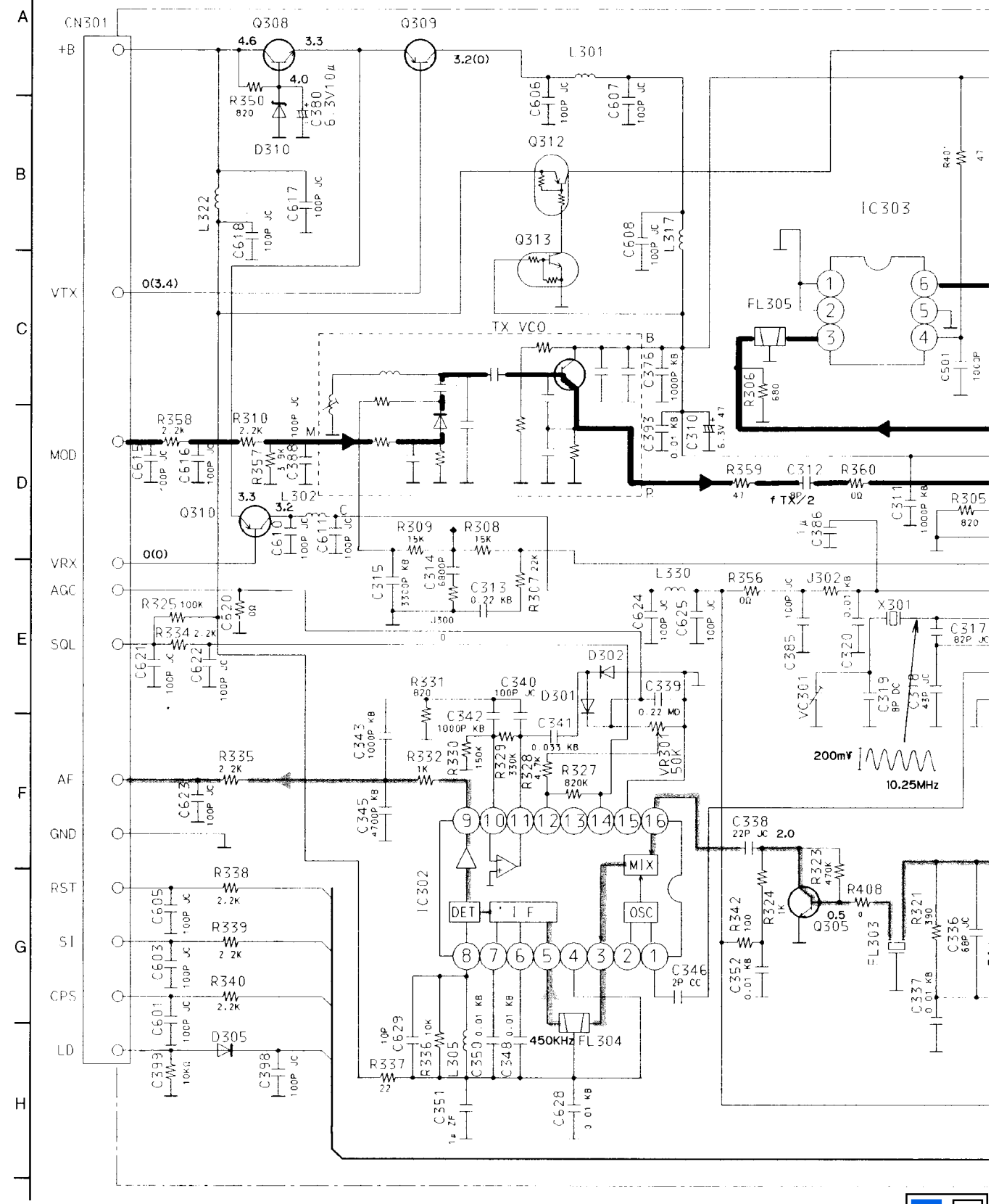
This schematic diagram may be modified at any time with the development of new technology.


RESET
MIC MUTE
BATT LOW
ID
POWER DOWN
3.0
ALARM VOL
BATT LOW
CHARGE
PLL UNLOCK
PLL CLK
SP MUTE
RX VOL
R213 10K
R212 10K
C261 0.1μZ
C299 0.1μZ
C252 18P JC
C253 18P JC
PROGRAM
TALK
REDIAL /PAUSE
INT
FLASH
AUTO
VOLUME /PAGING
CH
D1
D2
D3
D4
J401 0
X401
C496 4V47μ
VC401
C419 8P DC
LD
CPS
S!
RST
R441 2.2K
R440 2.2K
R439 2.2K
R438 2.2K
C499 100K
C501 100P JC
C503 100P JC
C505 100P JC
L414
L415
L416
J208 0Ω
+B
L400
C517 100P JC
20dB
SQL
AF
AGC
R434 2.2K
R435 2.2K
R255 15K
R260 5.7K
R257 470K
R258 82K
C246 0.1μKB
C235 0.1μZ
Q215
R273 390K
C250 0.1μ KB
C243 0.01μ KB
R256 1K
C244 1800P KB
VR202 50K
R251 10K
400mV
600mV


J401
X401
C417
82P JC
C419
8P DC
C418
43P JC
VC401
C496
4V47μ
R405
820
TXE
GND
PD1
VCC
XIN
XOUT
XB
GND
RXE
GND
PD2
RST
SI
CPS
LD
MIXO
560
C431
6.3V 47
C486
1000P KB
C513
100P
B RXVCO
C
P
C525
6P
R437
22
R420
47
10.25MHz
0.2V
10.7MHz
C499
100K
L414
C501
100P JC
L415
C503
100P JC
L416
C505
100P JC
R425
100K
C446
2P CC
L404
450K
C448
0.1 K
C450
0.1 K
L405
C524
10P
R436
1.2K
C451
1μ ZF
C449
0.01 KB
IC402
OSC
MIX
IF
DET
R442
100
R424
1.5K
C452
0.01 KB
R427
560K
R428
4.7K
R429
330K
R432
1K
C445
4700P KB
C443
820P KB
VR401
50K
C439
0.1μ KB
C438
22P
2.0
R423
470K
0.5
Q405
L404
3.3nH
C436
68P JC
R421
100
R509
0
FL403
L400
100P JC
C437
0.01 KB
D401
D402
0.033 KB
C441
C440
68P JC
C442
820P KB
R430
330K
R431
820
Audio
R434
2.2K
R435
2.2K
0

SCHEMATIC DIAGRAM (

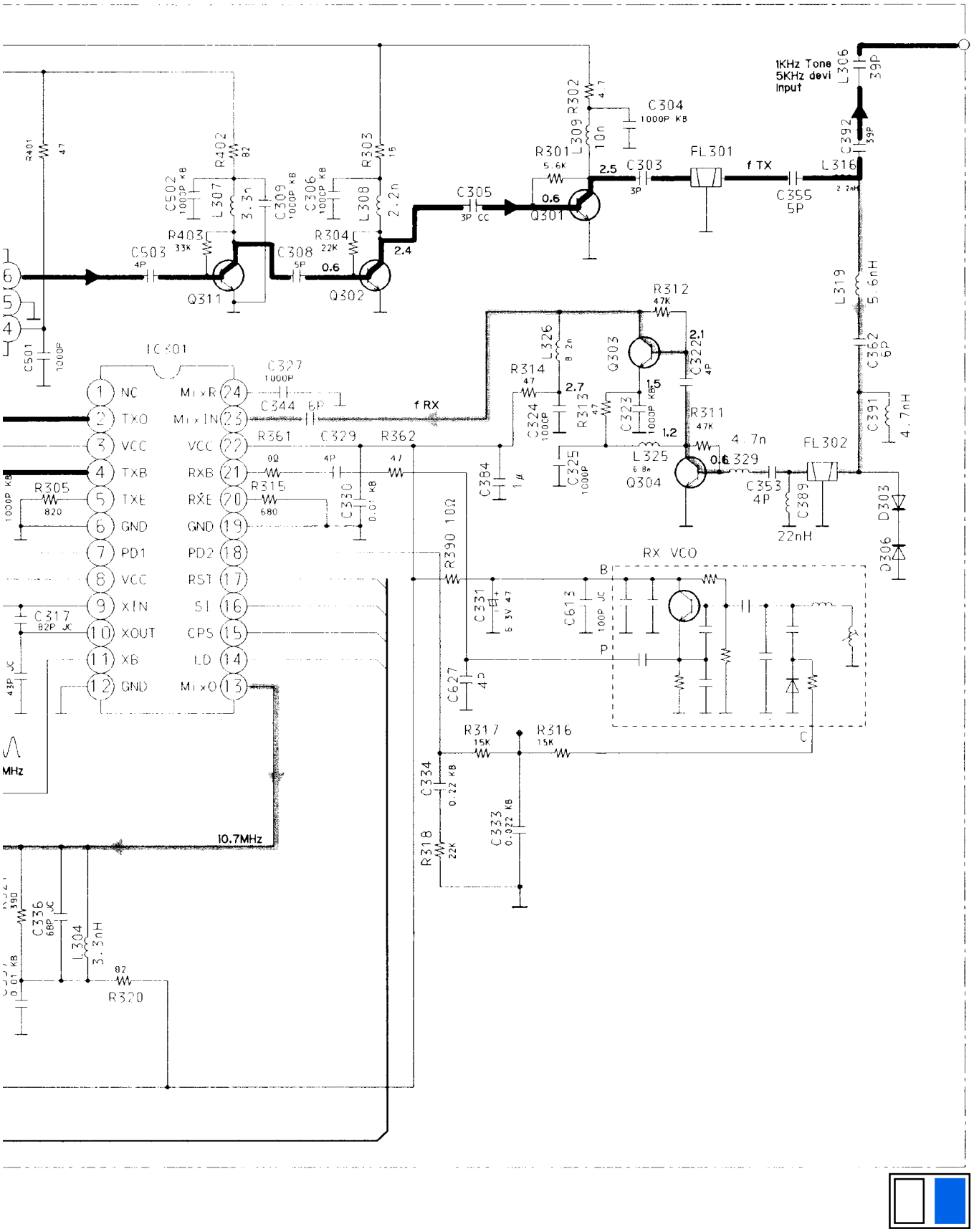
(RF UNIT)



RAM (KX-TC908BXH)

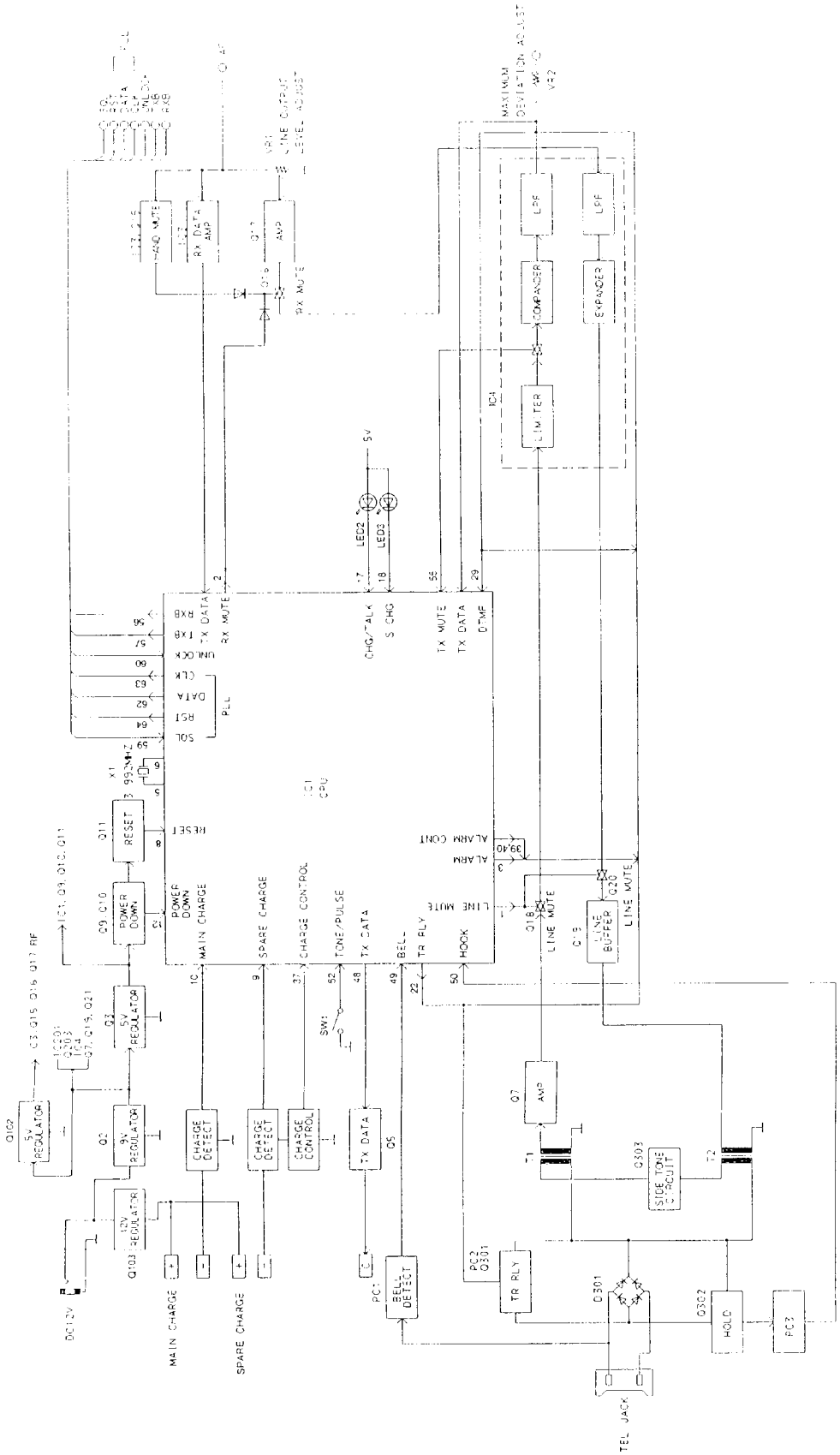
7 8 9 10 11 12

UNIT)

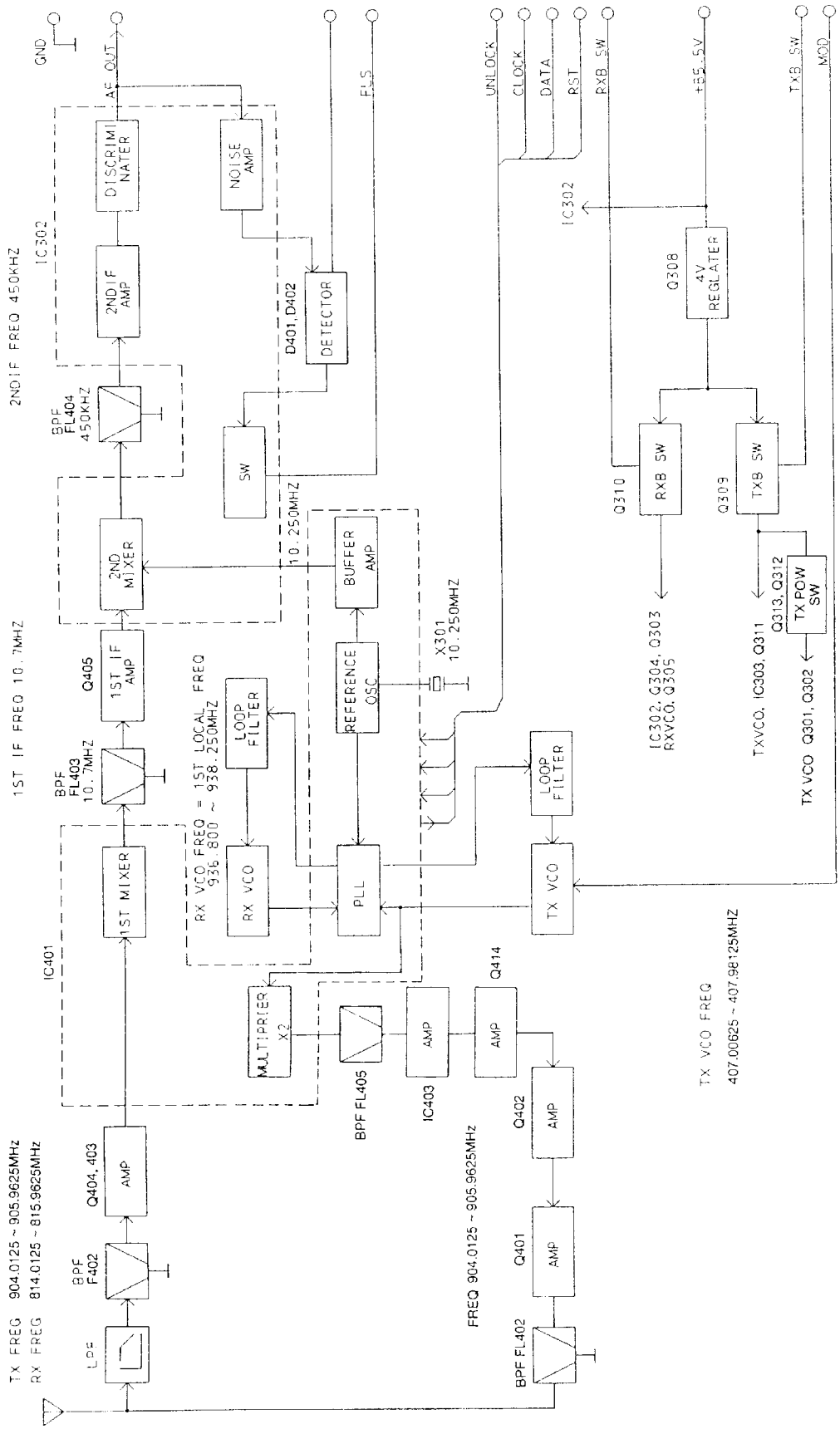


BLOCK DIAGRAM (KX-TC908BXH)

(Main P.C. Board)

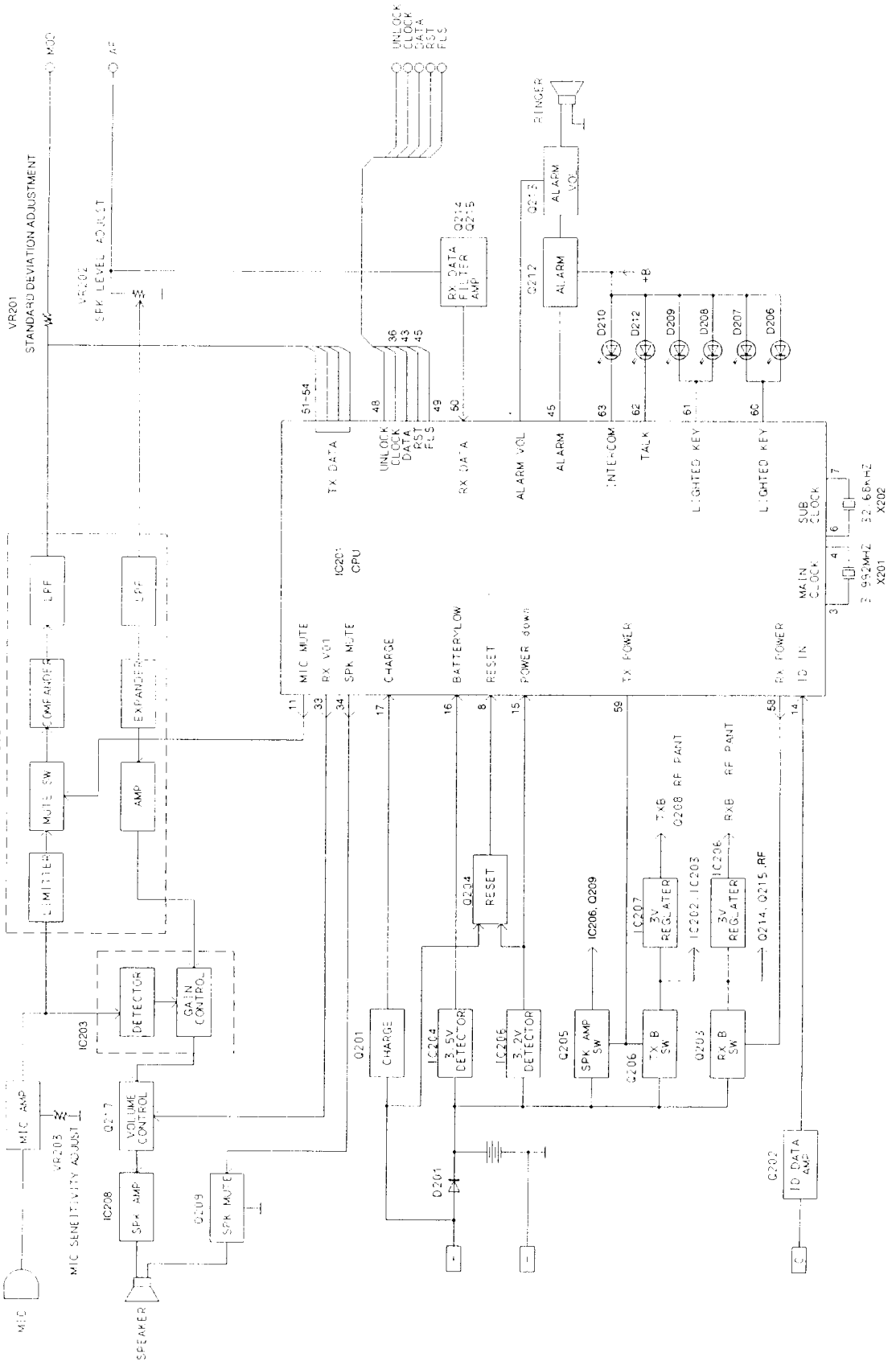


(RF Unit)

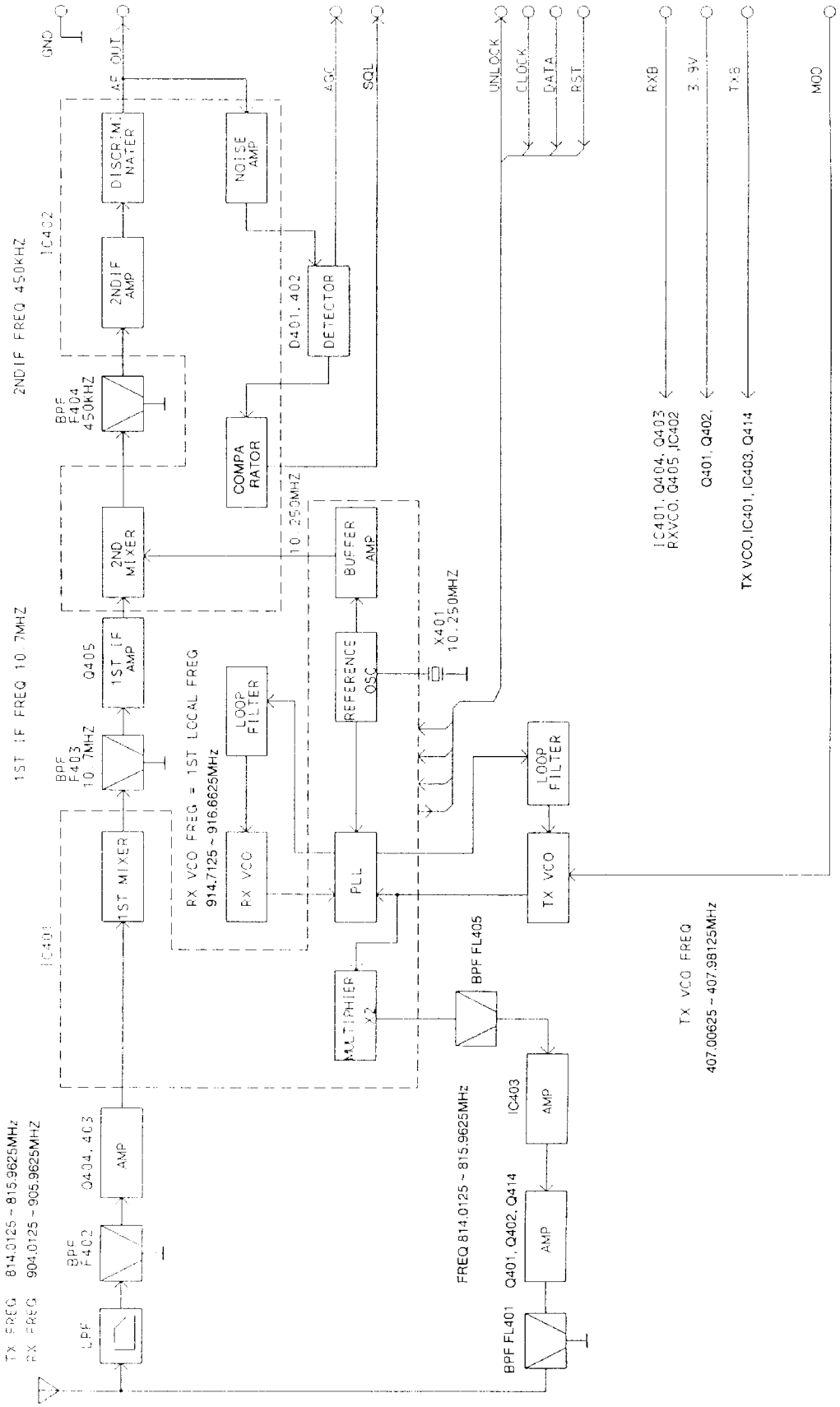

TX FREQ 904.0125 ~ 905.9625MHz
RX FREQ 814.0125 ~ 815.9625MHz
LPF
BPF F402
Q404, 403
AMP
1ST MIXER
IC401
BPF FL403 10.7MHZ
Q405
1ST IF AMP
1ST IF FREQ 10.7MHZ
2ND MIXER
BPF FL404 450KHZ
2ND IF AMP
DISCRIMINATER
IC302
2NDIF FREQ 450KHZ
AF OUT
GND
SW
NOISE AMP
D401, D402
DETECTOR
FLS
10.250MHZ
BUFFER AMP
X301 10.250MHZ
REFERENCE OSC
LOOP FILTER
RX VCO FREQ = 1ST LOCAL FREQ
936.800 ~ 938.250MHZ
RX VCO
PLL
MULTIPRIER X2
BPF FL405
IC403
AMP
Q414
Q402
AMP
Q401
AMP
BPF FL402
FREQ 904.0125 ~ 905.9625MHz
LOOP FILTER
TX VCO
TX VCO FREQ
407.00625 ~ 407.98125MHZ
UNLOCK
CLOCK
DATA
RST
RXB SW
+5S.5V
TXB SW
MOD
IC302
Q308
4V REGLATER
Q310
RXB SW
Q309
TXB SW
IC302, Q304, Q303
RXVCO, Q305
TXVCO, IC303, Q311
Q313, Q312
TX POW SW
TX VCO Q301, Q302

BLOCK DIAGRAM (KX-TC908BXR)

(Control Block)



(RF Block)


TX FREQ 814.0125 ~ 815.9625MHz
RX FREQ 904.0125 ~ 905.9625MHz
LPF
BPF F402
Q404, 403
AMP
BPF FL401
Q401, Q402, Q414
AMP
IC403
AMP
FREQ 814.0125 ~ 815.9625MHz
BPF FL405
MULTIPHIER X2
PLL
RX VCO
TX VCO
LOOP FILTER
LOOP FILTER
REFERENCE OSC
X401 10.250MHz
BUFFER AMP
RX VCO FREQ = 1ST LOCAL FREQ
914.7125 ~ 916.6625MHz
TX VCO FREQ
407.00625 ~ 407.98125MHz
1ST MIXER
IC401
BPF F403 10.7MHz
Q405
1ST IF AMP
1ST IF FREQ 10.7MHz
2ND MIXER
10.250MHz
BPF F404 450KHz
COMPARATOR
D401, 402
DETECTOR
2NDIF AMP
IC402
DISCRIMINATER
2NDIF FREQ 450KHz
NOISE AMP
AF OUT
GND
AGC
SQL
UNLOCK
CLOCK
DATA
RST
RXB
IC401, Q404, Q403
RXVCO, Q405, IC402
3.9V
Q401, Q402,
TXB
TX VCO, IC401, IC403, Q414
MOD

CABINET AND ELECTRICAL PARTS LOCATION (KX-TC908BXH)

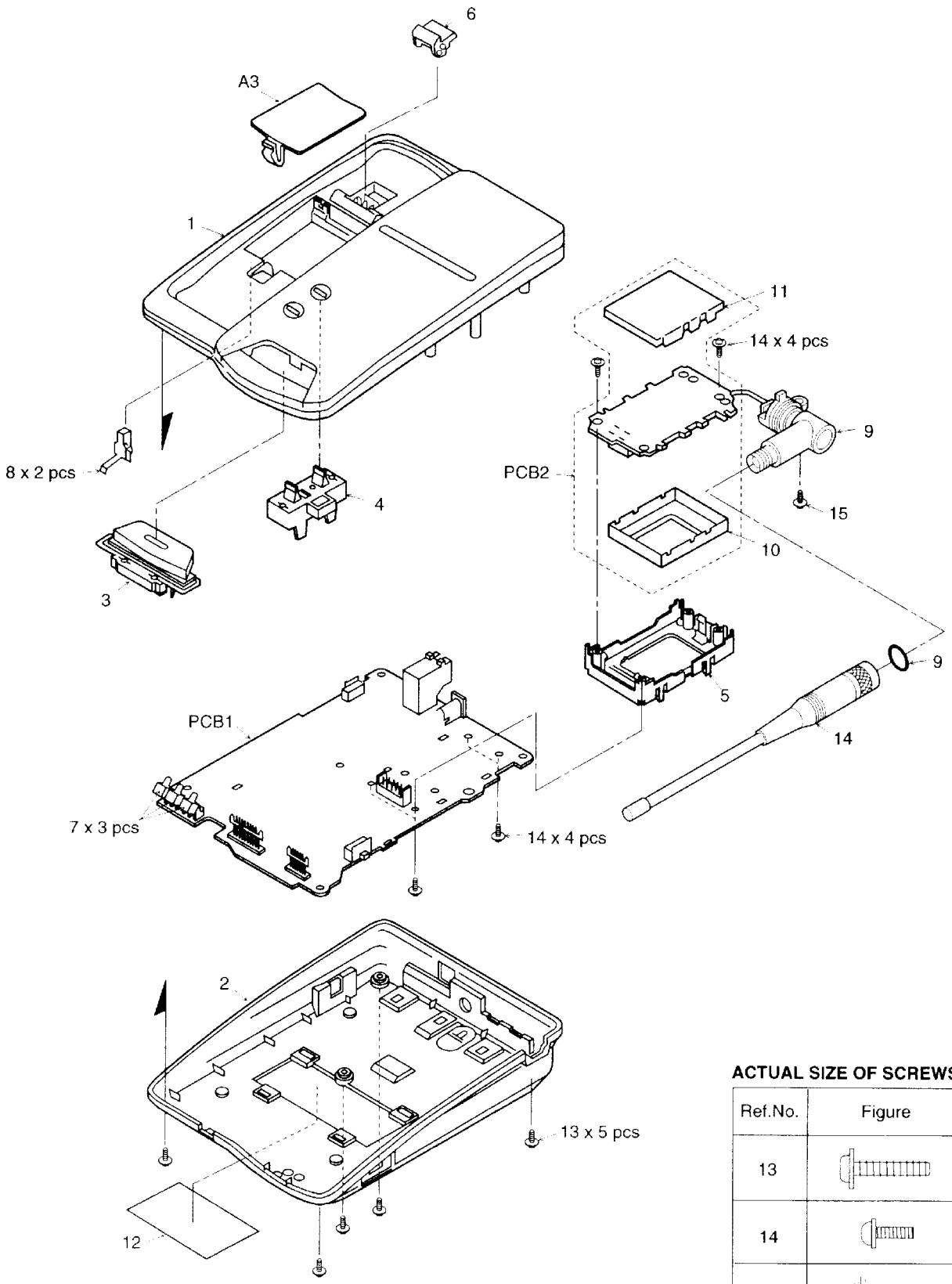


Fig. 44

ACTUAL SIZE OF SCREWS

Ref.No.	Figure
13	
14	
15	

CABINET AND ELECTRICAL PARTS LOCATION (KX-TC908BXR)

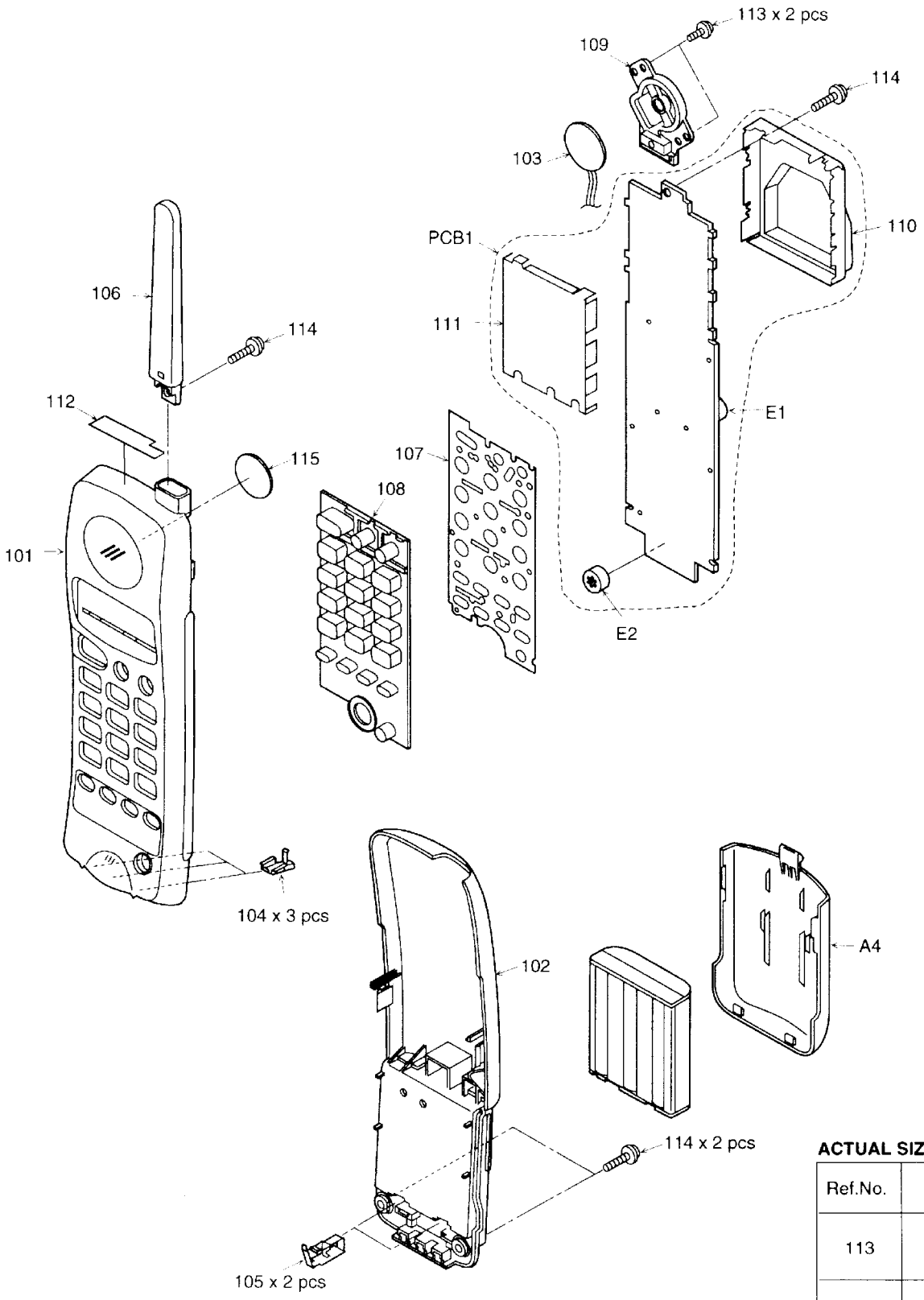
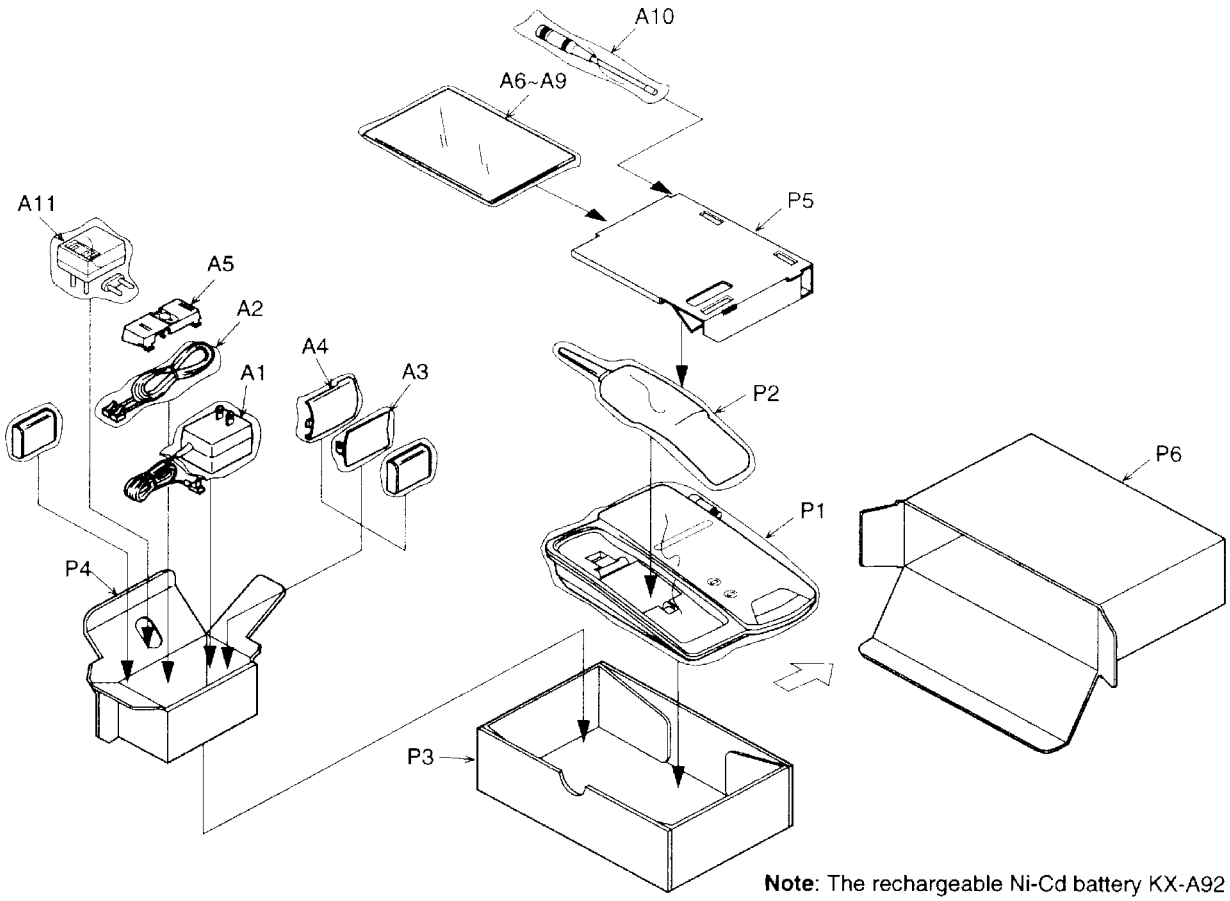


Fig. 45

ACTUAL SIZE OF SCREWS

Ref.No.	Figure
113	
114	

ACCESSORIES AND PACKING MATERIALS



Note: The rechargeable Ni-Cd battery KX-A92 are available through sales route of Panasonic.

Fig. 46

FIXTURES AND TOOLS

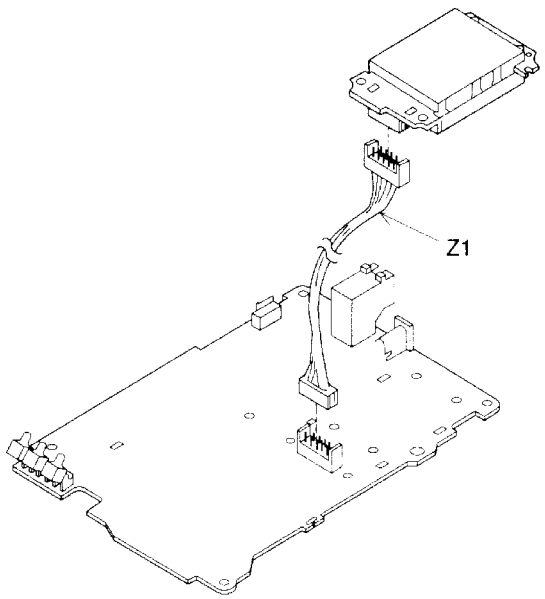


Fig. 47

REPLACEMENT PARTS LIST

Model KX-TC908BXH

Note:

1. RTL (Retention Time Limited)
   The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.
   After the end of this period, the assembly will no longer be available.
2. Important safety notice.
   Components identified by a ⚠ mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The S mark indicates service standard parts and may differ from production parts.
4. RESISTORS & CAPACITORS
   Unless otherwise specified.
   All resistors are in ohms (Ω) K=1000Ω, M=1000KΩ
   All capacitors are in MICRO FARADS (μF) P= μμF
   *Type &Wattage of Resistor
   Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W

*Type & Voltage of Capacitor
Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs/Set
		CABINET & ELECTRICAL PARTS	
1	PQKM10259Y3	UPPER CABINET	1
2	PQYF10101X1	LOWER CABINET	1
3	PQBC10218Z1	BUTTON S	1
4	PQHR10481Z	SPACER	1
5	PQHR10484Z	RF UNIT HOLDER	1
6	PQKE10055Z1	HANGER	1
7	PQJT10119Z	CHARGE TERMINAL	3
8	PQJT10086Z	CHARGE TERMINAL	2
9	PQJJ1J009Z	ANTENNA JACK	1
10	PQMC10214Z	SHIELD COVER	1
11	PQMC10215Z	SHIELD COVER	1
12	PQGT12603Z	NAME PLATE	1
13	XTW3+S14P	SCREW	5
14	XTW26+7P	SCREW	8
15	XTW3+S10P	SCREW	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
		MAIN P.C.BOARD PARTS	
PCB1	PQWPTC908BXH	P.C.BOARD ASS'Y (RTL)	1
		(ICS)	
IC1	PQVI25084H88	IC	1
IC3	PQVIT4069UBF	IC S	1
IC4	AN6165K	IC	1
		(TRANSISTORS)	
Q2	2SD2137	TRANSISTOR(SI)	1
Q3	2SD1994A	TRANSISTOR(SI)	1
Q5	2SD1991A	TRANSISTOR(SI)	1
Q6	2SD1991A	TRANSISTOR(SI)	1
Q7	2SD601R	TRANSISTOR(SI) S	1
Q9	2SB709A	TRANSISTOR(SI) S	1
Q10	2SD601R	TRANSISTOR(SI) S	1
Q11	2SD601R	TRANSISTOR(SI) S	1
Q12	PQVTD143Z106	TRANSISTOR(SI) S	1
Q13	2SB709A	TRANSISTOR(SI) S	1
Q15	2SD601R	TRANSISTOR(SI) S	1
Q16	2SD601R	TRANSISTOR(SI) S	1
Q17	2SK543	TRANSISTOR(SI)	1
Q19	2SD601R	TRANSISTOR(SI) S	1
Q102	2SD2136	TRANSISTOR(SI)	1
Q103	2SD1994A	TRANSISTOR(SI)	1
Q301	2SA1776P	TRANSISTOR(SI) ⚠ S	1
Q303	2SC2120	TRANSISTOR(SI) ⚠	1
		(DIODES)	
D2	MA4100	DIODE(SI)	1
D3	MA4062	DIODE(SI)	1
D4	1SS120	DIODE(SI)	1
D5	MA4047	DIODE(SI)	1
D6	1SS120	DIODE(SI)	1
D7	1SS120	DIODE(SI)	1
D8	1SS120	DIODE(SI)	1
D11	MA110	DIODE(SI)	1
D13	1SS120	DIODE(SI)	1
D14	1SS120	DIODE(SI)	1
D15	1SS120	DIODE(SI)	1
D16	MA110	DIODE(SI)	1
D18	MA110	DIODE(SI)	1
D20	MA8120	DIODE(SI)	1
D301	PQVDS1ZB40F1	DIODE(SI) ⚠	1
D303	MA4200	DIODE(SI) ⚠	1
LED2	LN31GCPHV	LED	1
LED3	LN21RCPHV	LED	1
R16	PQVDMZJ5R6C	DIODE(SI)	1
R35	PQVDS5688G	DIODE(SI)	1
		(COILS AND TRANSFORMERS)	
L3	PQLQZK330KT	COIL	1
L4	PQLQZK330KT	COIL	1
L5	PQLQZK330KT	COIL	1
L6	PQLQZK330KT	COIL	1
L7	PQLQZK330KT	COIL	1
L8	PQLQZK330KT	COIL	1
L9	PQLQZM2R2K	COIL	1
T1	PQLT8D4A	TRANSFORMER ⚠	1
T2	PQLT8D4A	TRANSFORMER ⚠	1
		(SWITCHES)	
SW1	PQSS2A27W	SWITCH	1
S3	EVQQJJ05Q	SWITCH	1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
		(VARIABLE RESISTORS)	
VR1	EVNDXAA03B24	VARIABLE RESISTOR	1
VR2	EVNDXAA03B54	VARIABLE RESISTOR	1
		(PHOTO COUPLERS)	
PC1	PQVIPC814K	PHOTO ELECTRIC TRANSDUCER ⚠	1
PC2	PQVITLP627	PHOTO ELECTRIC TRANSDUCER ⚠	1
		(JACKS)	
JK1	PQJJ1TA9Z	JACK, TEL	1
JK2	PQJJ1B4Y	JACK, DC IN ⚠	1
		(OTHERS)	
PO1	PQRPAR390N	POSISTOR ⚠	1
SA1	PQVDRA311PT3	VARISTOR S⚠	1
SA2	PQVDDSP272MR	VARISTOR ⚠	1
X1	PQVBT3.99G1	CRYSTAL OSCILLATOR	1
CN3	PQJP12B44Z	CONNECTOR	1
		(RESISTORS)	
R2	ERJ3GEYJ102	1K	1
R3	ERJ3GEYJ102	1K	1
R4	PQ4R18XJ472	4.7K	1
R5	PQ4R10XJ471	470	1
R6	ERDS2TJ270	27	1
R7	ERDS2TJ270	27	1
R8	PQ4R18XJ221	220	1
R9	PQ4R18XJ221	220	1
R10	ERJ3GEYJ103	10K	1
R11	PQ4R18XJ473	47K	1
R12	ERDS2TJ270	27	1
R13	ERDS2TJ270	27	1
R14	ERJ3GEYJ103	10K	1
R17	ERJ3GEYJ103	10K	1
R18	ERDS2TJ270	27	1
R19	ERDS2TJ220	22	1
R20	ERJ3GEYJ104	100K	1
R21	ERJ3GEYJ124	120K	1
R22	ERJ3GEYJ472	4.7K	1
R23	ERJ3GEYJ103	10K	1
R24	ERJ3GEYJ272	2.7K	1
R25	ERJ3GEYJ104	100K	1
R26	ERJ3GEYJ104	100K	1
R27	ERJ3GEYJ104	100K	1
R28	ERJ3GEYJ104	100K	1
R29	ERJ3GEYJ102	1K	1
R30	ERJ3GEYJ153	15K	1
R31	ERJ3GEYJ104	100K	1
R32	ERJ3GEYJ104	100K	1
R33	PQ4R18XJ120	12	1
R34	PQ4R18XJ150	15	1
R36	PQ4R18XJ000	0	1
R37	ERJ3GEYJ223	22K	1
R38	ERJ3GEYJ105	1M	1
R39	ERJ3GEY0R00	0	1
R43	ERJ3GEY0R00	0	1
R48	ERJ3GEYJ122	1.2K	1
R49	ERJ3GEYJ222	2.2K	1
R51	PQ4R10XJ561	560	1
R52	ERJ3GEYJ391	390	1
R54	ERJ3GEYJ103	10K	1
R55	ERJ3GEYJ104	100K	1
R56	ERJ3GEYJ474	470K	1
R57	ERJ3GEYJ683	68K	1
R58	ERJ3GEYJ474	470K	1
R59	ERJ3GEYJ394	390K	1
R60	ERJ3GEYJ564	560K	1

Ref. No.	Part No.	Value	Pcs/Set
R61	ERJ3GEYJ393	39K	1
R62	ERJ3GEYJ683	68K	1
R63	ERJ3GEYJ183	18K	1
R64	ERJ3GEYJ104	100K	1
R65	PQ4R18XJ472	4.7K	1
R68	ERJ3GEYJ124	120K	1
R69	ERJ3GEYJ123	12K	1
R70	ERJ3GEYJ332	3.3K	1
R71	ERJ3GEYJ471	470	1
R73	ERJ3GEYJ103	10K	1
R74	ERJ3GEYJ823	82K	1
R75	ERJ3GEYJ332	3.3K	1
R76	ERJ3GEYJ563	56K	1
R77	ERJ3GEY0R00	0	1
R82	ERJ3GEYJ220	22	1
R85	PQ4R10XJ103	10K	1
R86	ERJ3GEYJ683	68K	1
R91	ERJ3GEY0R00	0	1
R92	ERJ3GEYJ333	33K	1
R93	ERJ3GEYJ472	4.7K	1
R94	PQ4R10XJ100	10	1
R95	ERJ3GEYJ681	680	1
R96	ERJ3GEYJ563	56K	1
R97	ERJ3GEYJ472	4.7K	1
R98	ERJ3GEYJ684	680K	1
R99	ERJ3GEYJ472	4.7K	1
R100	ERJ3GEYJ473	47K	1
R101	ERJ3GEYJ271	270	1
R105	ERJ3GEYJ154	150K	1
R106	ERJ3GEYJ183	18K	1
R107	ERJ3GEYJ103	10K	1
R108	ERJ3GEYJ154	150K	1
R109	ERJ3GEYJ105	1M	1
R110	ERJ3GEYJ563	56K	1
R111	ERJ3GEYJ123	12K	1
R112	ERJ3GEYJ123	12K	1
R113	ERJ3GEYJ153	15K	1
R114	ERJ3GEYJ153	15K	1
R115	ERJ3GEYJ223	22K	1
R116	ERJ3GEYJ472	4.7K	1
R117	ERJ3GEYJ333	33K	1
R118	ERJ3GEYJ333	33K	1
R119	ERJ3GEYJ152	1.5K	1
R120	ERJ3GEYJ123	12K	1
R121	ERJ3GEYJ563	56K	1
R122	ERJ3GEYJ154	150K	1
R125	ERJ3GEYJ333	33K	1
R127	ERJ3GEYJ472	4.7K	1
R128	ERJ3GEYJ223	22K	1
R130	ERJ3GEY0R00	0	1
R154	ERJ3GEYJ104	100K	1
R155	ERJ3GEYJ104	100K	1
R156	ERJ3GEYJ104	100K	1
R157	ERJ3GEYJ104	100K	1
R301	ERDS2TJ473 ⚠	47K	1
R302	PQ4R10XJ104 ⚠	100K	1
R303	PQ4R18XJ122 ⚠	1.2K	1
R309	PQ4R10XJ391 ⚠	390	1
R310	PQ4R10XJ331 ⚠	330	1
R314	PQ4R10XJ222 ⚠	2.2K	1
R315	PQ4R10XJ272 ⚠	2.7K	1
R316	PQ4R10XJ221 ⚠	220	1
R317	ERDS1TJ220 ⚠	22	1
R318	ERDS1TJ330 ⚠	33	1
R320	ERJ3GEYJ103	10K	1
R321	ERJ3GEYJ102	1K	1
R322	ERJ3GEYJ103	10K	1
R323	PQ4R10XJ000 ⚠	0	1
R324	ERJ3GEYJ473	47K	1
R325	ERJ3GEYJ103	10K	1
R326	ERJ3GEYJ474	470K	1

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Ref. No.	Part No.	Value		Pcs/Set
R327	ERJ3GEYJ563	56K		1
R328	ERJ3GEY0R00	0		1
R330	PQ4R10XJ273	27K	⚠	1
R357	ERJ3GEYJ682	6.8K		1
R358	ERJ3GEYJ103	10K		1
R401	ERJ3GEYJ104	100K		1
R402	ERJ3GEYJ102	1K		1
R404	ERJ3GEY0R00	0		1
J5	ERDS2TJ470	47		1
J141	ERJ3GEY0R00	0		1
J142	ERJ3GEY0R00	0		1
J143	ERJ3GEY0R00	0		1
J145	ERJ3GEY0R00	0		1
J146	ERJ3GEY0R00	0		1
J147	ERJ3GEY0R00	0		1
J148	ERJ3GEY0R00	0		1
J149	ERJ3GEY0R00	0		1
J150	ERJ3GEY0R00	0		1
J152	ERJ3GEY0R00	0		1
J153	ERJ3GEY0R00	0		1
J154	ERJ3GEY0R00	0		1
J161	PQ4R18XJ000	0		1
J162	PQ4R18XJ000	0		1
J163	PQ4R18XJ000	0		1
J164	PQ4R18XJ000	0		1
J165	PQ4R18XJ000	0		1
J166	PQ4R18XJ000	0		1
J167	PQ4R18XJ000	0		1
J168	PQ4R18XJ000	0		1
J169	PQ4R18XJ000	0		1
J170	PQ4R18XJ000	0		1
J171	PQ4R18XJ000	0		1
J172	PQ4R18XJ000	0		1
J180	ERJ3GEY0R00	0		1
D17	PQ4R10XJ000	0		1
C101	PQ4R10XJ000	0		1
C238	PQ4R10XJ473	47K		1
		(CAPACITORS)		
C1	ECEA1EU101	100		1
C4	ECEA1CU331	330		1
C5	ECEA1CU221	220		1
C6	ECEA1AU101	100		1
C7	ECEA0JU102	1000		1
C16	PQCUV1H102J	0.001	S	1
C22	PQCUV1C224KB	0.22		1
C23	ECEA0JU102	1000		1
C24	PQCUV1E104MD	0.1	S	1
C25	ECEA1AU101	100		1
C26	ECST1CC336	33		1
C28	ECEA1AU101	100		1
C33	PQCUV1C105ZF	1		1
C34	PQCUV1E104MD	0.1	S	1
C35	PQCUV1E104MD	0.1	S	1
C36	PQCUV1E104MD	0.1	S	1
C41	PQCUV1E473MD	0.047		1
C42	PQCUV1E473MD	0.047		1
C43	PQCUV1H221JC	220P		1
C44	PQCUV1H221JC	220P		1
C45	PQCUV1E104MD	0.1		1
C46	PQCUV1H222KB	0.0022		1
C47	PQCUV1H331JC	330P		1
C48	ECEA1CKS220	22	S	1
C49	PQCUV1E333MD	0.033		1
C50	ECEA1CKS100	10	S	1
C53	PQCUV1C105ZF	1		1
C54	PQCUV1E104MD	0.1		1
C56	ECEA1HKS010	1	S	1
C58	ECQV1H684JM	0.68		1

Ref. No.	Part No.	Value		Pcs/Set
C61	ECUV1H101JCV	100P		1
C62	PQCUV1C224KB	0.22		1
C65	ECEA1HKS010	1	S	1
C66	ECEA1CKS470	47	S	1
C76	PQCUV1E104MD	0.1	S	1
C77	PQCUV1H472KB	0.0047		1
C78	PQCUV1E104MD	0.1		1
C79	ECEA1CKS220	22	S	1
C80	PQCUV1H391JC	390P		1
C81	PQCUV1H153KB	0.015		1
C82	ECEA1VKS4R7	4.7	S	1
C83	ECEA1CKS100	10		1
C84	PQCUV1C105ZF	1		1
C85	PQCUV1H123MD	0.012	S	1
C86	PQCUV1H151JC	150P		1
C87	ECEA1AKS101	100		1
C88	PQCUV1E104MD	0.1		1
C89	PQCUV1E563MD	0.056		1
C90	PQCUV1C105ZF	1		1
C91	ECEA1VKS4R7	4.7	S	1
C92	ECEA1CKS100	10		1
C93	PQCUV1C105ZF	1		1
C94	PQCUV1H682KB	0.0068		1
C95	PQCUV1H472KB	0.0047		1
C96	PQCUV1H222KB	0.0022		1
C98	PQCUV1H103KB	0.01	S	1
C99	PQCUV1C683MD	0.068		1
C102	PQCUV1E104MD	0.1		1
C237	PQCUV1H103ZF	0.01		1
C241	ECUV1H103KBV	0.01		1
C242	PQCUV1H103KB	0.01	⚠ S	1
C243	ECUV1C104KBV	0.1		1
C245	PQCUV1H103KB	0.01	S	1
C246	ECUV1H222KBV	0.0022		1
C248	PQCUV1H332KB	0.0033		1
C250	PQCUV1C224KB	0.22		1
C301	ECQE2224KF	0.22	⚠	1
C302	ECKD2H681KB	680P	⚠ S	1
C303	ECKD2H681KB	680P	⚠ S	1
C308	ECEA1HKS4R7	4.7	⚠	1
C312	ECEA1CKS220	22	⚠ S	1
C313	PQCUV1H153KB	0.015	⚠	1
C314	ECEA1CKS100	10	⚠ S	1
C315	ECEA1HKS010	1	⚠ S	1
		RF UNIT PARTS		
PCB3	PQLP10179BX	P.C.BOARD ASS'Y (RTL)		1
		(ICS)		
IC301	PQVIM64084AG	IC		1
IC302	PQVIDBL5018V	IC		1
IC303	PQVIPC2746TE	IC		1
		(TRANSISTORS)		
Q301	2SC4988	TRANSISTOR(SI)		1
Q302	2SC3356R24	TRANSISTOR(SI)		1
Q303	2SC4226R24	TRANSISTOR(SI)		1
Q304	2SC4226R24	TRANSISTOR(SI)		1
Q305	2SC4258	TRANSISTOR(SI)		1
Q308	2SD601A	TRANSISTOR(SI)		1
Q309	PQVTD113Z146	TRANSISTOR(SI)	S	1
Q310	PQVTD123J106	TRANSISTOR(SI)	S	1
Q311	2SC4226R24	TRANSISTOR(SI)		1
Q312	PQVTD113Z146	TRANSISTOR(SI)	S	1
Q313	PQVTDTC143E	TRANSISTOR(SI)		1

Ref. No.	Part No.	Value		Pcs/Set
		(DIODES)		
D301	MA728	DIODE(SI)		1
D302	MA728	DIODE(SI)		1
D303	MA2S111	DIODE(SI)		1
D305	MA2S111	DIODE(SI)		1
D306	MA2S111	DIODE(SI)		1
D310	MA8047	DIODE(SI)		1
		(COILS)		
L301	PQLQR1RM601	COIL		1
L302	PQLQR1RM601	COIL		1
L304	PQLQR2N3R3K	COIL		1
L305	PQLI2B201	I.F. TRANSFORMER		1
L307	MQLRE3N3DF	COIL		1
L308	MQLRE2N2DF	COIL		1
L309	MQLRE10NJF	COIL		1
L316	MQLRE2N2DF	COIL		1
L317	PQLQR1RM601	COIL		1
L319	MQLRE5N6JF	COIL		1
L322	PQLQR1RM601	COIL		1
L325	MQLRE6N8JF	COIL		1
L326	PQLQR2M8N2KT	COIL	S	1
L329	PQLQR2M4N7K	COIL	S	1
L330	PQLQR1RM601	COIL		1
C389	MQLRE22NJF	COIL		1
C391	PQLQR2M4N7K	COIL	S	1
		(SAW FILTERS)		
FL301	EZFN903AM01	SAW FILTER		1
FL302	PQVSNSVA814N	SAW FILTER		1
FL303	PQVFSFE107MJ	SAW FILTER	S	1
FL304	PQVFCFH450B1	SAW FILTER		1
FL305	PQVSNSVA903N	SAW FILTER		1
		(OTHERS)		
RX VCO	PQV034Z	OSCILLATOR		1
TX VCO	PQV035Z	OSCILLATOR		1
CN301	PQJS12A99Z	CONNECTOR		1
VC301	ECRLA010A53R	TRIMMER CAPACITOR		1
VR301	EVN5ESX50B54	VARIABLE RESISTOR		1
X301	PQVCJ025K0ZD	CRYSTAL OSCILLATOR		1
		(RESISTORS)		
R301	ERJ3GEYJ562	5.6K		1
R302	ERJ3GEYJ4R7	4.7		1
R303	ERJ3GEYJ150	15		1
R304	ERJ3GEYJ223	22K		1
R305	ERJ3GEYJ821	820		1
R306	ERJ3GEYJ681	680	⚠	1
R307	ERJ3GEYJ223	22K		1
R308	ERJ3GEYJ153	15K		1
R309	ERJ3GEYJ153	15K		1
R310	ERJ3GEYJ222	2.2K		1
R311	ERJ3GEYJ473	47K		1
R312	ERJ3GEYJ473	47K	⚠	1
R313	ERJ3GEYJ470	47	⚠	1
R314	ERJ3GEYJ470	47	⚠	1
R315	ERJ3GEYJ681	680	⚠	1
R316	ERJ3GEYJ153	15K	⚠	1
R317	ERJ3GEYJ153	15K	⚠	1
R318	ERJ3GEYJ223	22K	⚠	1
R320	ERJ3GEYJ820	82	⚠	1
R321	ERJ3GEYJ391	390	⚠	1
R323	ERJ3GEYJ474	470K	⚠	1
R324	ERJ3GEYJ102	1K	⚠	1
R325	ERJ3GEYJ104	100K		1
R327	ERJ3GEYJ824	820K		1

Ref. No.	Part No.	Value		Pcs/Set
R328	ERJ3GEYJ472	4.7K		1
R329	ERJ3GEYJ334	330K		1
R330	ERJ3GEYJ154	150K		1
R331	ERJ3GEYJ821	820		1
R332	ERJ3GEYJ102	1K		1
R334	ERJ3GEYJ222	2.2K		1
R335	ERJ3GEYJ222	2.2K		1
R336	ERJ3GEYJ103	10K		1
R337	ERJ3GEYJ220	22		1
R338	ERJ3GEYJ222	2.2K		1
R339	ERJ3GEYJ222	2.2K		1
R340	ERJ3GEYJ222	2.2K		1
R342	ERJ3GEYJ101	100		1
R350	ERJ3GEYJ821	820		1
R356	ERJ3GEY0R00	0		1
R357	ERJ3GEYJ392	3.9K		1
R358	ERJ3GEYJ222	2.2K		1
R359	ERJ3GEYJ470	47		1
R360	ERJ3GEY0R00	0		1
R361	ERJ3GEY0R00	0		1
R362	ERJ3GEYJ470	47		1
R390	ERJ3GEYJ100	10		1
R401	ERJ3GEYJ470	47		1
R402	ERJ3GEYJ820	82		1
R403	ERJ3GEYJ333	33K		1
R408	ERJ3GEY0R00	0		1
J300	ERJ3GEY0R00	0		1
J301	ERJ3GEY0R00	0		1
J302	ERJ3GEY0R00	0		1
J303	ERJ3GEY0R00	0		1
J304	ERJ3GEY0R00	0		1
J305	ERJ3GEY0R00	0		1
C399	ERJ3GEYJ103	10K		1
C620	ERJ3GEY0R00	0		1
		(CAPACITORS)		
C303	ECUV1H030CCV	3P		1
C304	ECUV1H102KBV	0.001		1
C305	ECUV1H030CCV	3P		1
C306	ECUV1H102KBV	0.001		1
C308	ECUV1H050CCV	5P		1
C309	ECUV1H102KBV	0.001		1
C310	ECEA1CKS470	47	S	1
C311	ECUV1H102KBV	0.001		1
C312	ECUV1H080DCV	8P		1
C313	PQCUV1C224KB	0.22		1
C314	ECUV1H682KBV	0.0068		1
C315	ECUV1H332KBV	0.0033		1
C317	ECUV1H820JCV	82P		1
C318	ECUV1H430JCV	43P		1
C319	ECUV1H080DCV	8P		1
C320	ECUV1H103KBV	0.01		1
C322	ECUV1H040CCV	4P		1
C323	ECUV1H102KBV	0.001		1
C324	ECUV1H102KBV	0.001		1
C325	ECUV1H102KBV	0.001		1
C327	ECUV1H102KBV	0.001		1
C329	ECUV1H040CCV	4P		1
C330	ECUV1H103KBV	0.01		1
C331	ECEA1CKS470	47	S	1
C333	ECUV1H223KBV	0.022	S	1
C334	PQCUV1C224KB	0.22		1
C336	ECUV1H680JCV	68P		1
C337	ECUV1H103KBV	0.01		1
C338	ECUV1H220JCV	22P		1
C339	PQCUV1C224ZF	0.22	S	1
C340	ECUV1H101JCV	100P		1
C341	ECUV1H333KDV	0.033	S	1
C342	ECUV1H102KBV	0.001		1

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Ref. No	Part No.	Value	Pcs/Set
C343	ECUV1H102KBV	0.001	1
C344	ECUV1H060DCV	6P	1
C345	ECUV1H472KBV	0.0047	1
C346	ECUV1H020CCV	2P	1
C348	ECUV1H103KBV	0.01	1
C350	ECUV1H103KBV	0.01	1
C351	PQCUV1C105ZF	1	1
C352	ECUV1H103KBV	0.01	1
C353	ECUV1H040CCV	4P	1
C355	ECUV1H050CCV	5P	1
C362	ECUV1H060DCV	6P	1
C376	ECUV1H102KBV	0.001	1
C380	ECST0JY106	10	1
C384	PQCUV1C105ZF	1	1
C385	ECUV1H101JCV	100P	1
C386	PQCUV1C105ZF	1	1
C388	ECUV1H101JCV	100P	1
C392	ECUV1H390JCV	39P	1
C393	ECUV1H103KBV	0.01	1
C398	ECUV1H101JCV	100P	1
C501	ECUV1H102KBV	0.001	1
C502	ECUV1H102KBV	0.001	1
C503	ECUV1H040CCV	4P	1
C601	ECUV1H101JCV	100P	1
C603	ECUV1H101JCV	100P	1
C605	ECUV1H101JCV	100P	1
C606	ECUV1H101JCV	100P	1
C607	ECUV1H101JCV	100P	1
C608	ECUV1H101JCV	100P	1
C610	ECUV1H101JCV	100P	1
C611	ECUV1H101JCV	100P	1
C613	ECUV1H101JCV	100P	1
C615	ECUV1H101JCV	100P	1
C616	ECUV1H101JCV	100P	1
C617	ECUV1H101JCV	100P	1
C618	ECUV1H101JCV	100P	1
C621	ECUV1H101JCV	100P	1
C622	ECUV1H101JCV	100P	1
C623	ECUV1H101JCV	100P	1
C624	ECUV1H101JCV	100P	1
C625	ECUV1H101JCV	100P	1
C627	ECUV1H040CCV	4P	1
C628	ECUV1H103KBV	0.01	1
C629	ECUV1H100DCV	10P	1
L306	ECUV1H390JCV	39P	1

REPLACEMENT PARTS LIST

Model KX-TC908BXR

Note:

1. RTL (Retention Time Limited)
   The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention.
   After the end of this period, the assembly will no longer be available.
2. Important safety notice.
   Components identified by a ⚠ mark special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The S mark indicates service standard parts and may differ from production parts.
4. RESISTORS & CAPACITORS
   Unless otherwise specified.
   All resistors are in ohms (Ω) K=1000Ω, M=1000KΩ
   All capacitors are in MICRO FARADS (μF) P= μμF
   *Type &Wattage of Resistor
   Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

   Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W

   *Type & Voltage of Capacitor
   Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyester
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

   Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs/Set
		CABINET & ELECTRICAL PARTS	
101	PQYM10063T5	FRONT CABINET	1
102	PQKF10172Z1	CABINET COVER	1
103	PQAX2P04Z	SPEAKER	1
104	PQJT10112Z	CHARGE TERMINAL	3
105	PQJT10113Z	CHARGE TERMINAL	2
106	PQSA10048Z	ANTENNA	1
107	PQSX10043Z	KEYBOARD SWITCH	1
108	PQSX10045U	KEYBOARD SWITCH	1
109	PQHR10486Z1	SP HOLDER	1
110	PQMC10217Z	SHIELD COVER	1
111	PQMC10218Z	SHIELD COVER	1
112	PQGT12604Z	NAME PLATE	1
113	XTB26+8J	SCREW	2
114	XTW26+12F	SCREW	4
115	PQHS10293Z	COVER	1

Ref. No.	Part No.	Part Name & Description		Pcs/Set
		MAIN P.C.BOARD PARTS		
PCB1	PQWPTC908BXR	P.C.BOARD ASS'Y (RTL)		1
		(ICS)		
IC201	MN151233KZAC	IC		1
IC202	AN6165SB	IC		1
IC203	AN6183SAE1	IC	S	1
IC204	PQVIXCC3501P	IC		1
IC205	PQVIXC3002PR	IC		1
IC206	PQVIXCC3202P	IC		1
IC207	PQVITK11630U	IC	S	1
IC208	PQVINJM2113V	IC		1
IC401	PQVIM64084AG	IC		1
IC402	PQVIDBL5018V	IC		1
IC403	PQVIPC2746TE	IC		1
		(TRANSISTORS)		
Q201	2SD1819A	TRANSISTOR(SI)		1
Q202	2SD1819A	TRANSISTOR(SI)		1
Q203	PQVTDTB123E	TRANSISTOR(SI)		1
Q204	2SD1819A	TRANSISTOR(SI)		1
Q205	PQVTDTA143EU	TRANSISTOR(SI)		1
Q206	PQVTDTB123E	TRANSISTOR(SI)		1
Q208	2SD1819A	TRANSISTOR(SI)		1
Q209	PQVTDTC143E	TRANSISTOR(SI)		1
Q212	PQVTD123T146	TRANSISTOR(SI)	S	1
Q213	PQVTD123J106	TRANSISTOR(SI)	S	1
Q214	2SD1819A	TRANSISTOR(SI)		1
Q215	2SD1819A	TRANSISTOR(SI)		1
Q217	PQVTDTC144TU	TRANSISTOR(SI)		1
Q401	2SC4988	TRANSISTOR(SI)		1
Q402	2SC3356R24	TRANSISTOR(SI)		1
Q403	2SC4226R24	TRANSISTOR(SI)		1
Q404	2SC4226R24	TRANSISTOR(SI)		1
Q405	2SC4099NT106	TRANSISTOR(SI)		1
Q412	PQVTDTC143E	TRANSISTOR(SI)		1
Q413	PQVTD113Z146	TRANSISTOR(SI)	S	1
Q414	2SC4226R24	TRANSISTOR(SI)		1
		(DIODES)		
D201	MA110	DIODE(SI)		1
D202	PQVDRB751H4	LED		1
D206	PQVDPY1112H	LED		1
D207	PQVDPY1112H	LED		1
D208	PQVDPY1112H	LED		1
D209	PQVDPY1112H	LED		1
D212	PQVDBR1112H	LED		1
D213	MA110	DIODE(SI)		1
D214	MA3062	DIODE(SI)		1
D215	MA110	DIODE(SI)		1
D216	MA8047	DIODE(SI)		1
D217	MA110	DIODE(SI)		1
D401	PQVDRB751H4	DIODE(SI)		1
D402	PQVDRB751H4	DIODE(SI)		1
D403	MA2S111	DIODE(SI)		1
D406	MA2S111	DIODE(SI)		1
DD	MA110	DIODE(SI)		1
DF	MA110	DIODE(SI)		1
		(COILS)		
L201	PQLQR3ER10K	COIL		1
L202	PQLQR3ER10K	COIL		1
L203	PQLQR3ER10K	COIL		1
L400	PQLQR1RM601	COIL		1
L401	PQLQR1RM601	COIL		1
L402	PQLQR1RM601	COIL		1

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Ref. No.	Part No.	Part Name & Description		Pcs/Set
L404	PQLQR2N3R3K	COIL		1
L405	PQLI2B201	COIL		1
L406	MQLRE3N9JF	COIL		1
L407	MQLRE3N9JF	COIL		1
L408	MQLRE5N6JF	COIL		1
L409	MQLRE12NJF	COIL		1
L412	MQLRE22NJF	COIL		1
L414	PQLQR1RM601	COIL		1
L415	PQLQR1RM601	COIL		1
L416	PQLQR1RM601	COIL		1
L417	PQLQR1RM601	COIL		1
L419	PQLQR2M4N7K	COIL	S	1
L420	MQLRE10NJF	COIL		1
L423	PQLQR2M4N7K	COIL	S	1
L424	MQLRE6N8JF	COIL		1
		(SAW FILTERS)		
FL401	EZFN814AM01	SAW FILTER		1
FL402	PQVSNSVA903N	SAW FILTER		1
FL403	PQVFSFE107MJ	SAW FILTER	S	1
FL404	PQVFCFH450B1	SAW FILTER		1
FL405	PQVSNSVA814N	SAW FILTER		1
		(VARIABLE RESISTORS)		
VR201	EVN5ESX50B15	VARIABLE RESISTOR		1
VR202	EVN5ESX50B54	VARIABLE RESISTOR		1
VR203	EVN5ESX50B52	VARIABLE RESISTOR		1
VR401	EVN5ESX50B54	VARIABLE RESISTOR		1
		(CRYSTAL OSCILLATORS)		
X201	PQVBTCC3.99M	CRYSTAL OSCILLATOR		1
X202	PQVCE3276N9Z	CRYSTAL OSCILLATOR		1
X401	PQVCJ025K0ZD	CRYSTAL OSCILLATOR		1
		(OTHERS)		
VC401	ECRLA010A53R	TRIMMER CAPACITOR		1
RX VCO	PQV036Z	OSCILLATOR		1
TX VCO	PQV037Z	OSCILLATOR		1
E1	PQEFBDB111GP	BUZZER		1
E2	PQJM122Z	MICROPHNE		1
		(RESISTORS)		
R201	ERJ3GEYJ103	10K		1
R202	ERJ3GEYJ332	3.3K		1
R203	ERJ3GEYJ473	47K		1
R205	ERJ3GEYJ473	47K		1
R206	ERJ3GEYJ473	47K		1
R207	ERJ3GEYJ473	47K		1
R208	ERJ3GEYJ224	220K		1
R209	ERJ3GEYJ473	47K		1
R210	ERJ3GEYJ681	680		1
R211	ERJ3GEYJ222	2.2K		1
R212	ERJ3GEYJ103	10K		1
R213	ERJ3GEYJ103	10K		1
R214	ERJ3GEYJ222	2.2K		1
R215	ERJ3GEYJ274	270K		1
R216	ERJ3GEYJ472	4.7K		1
R218	ERJ3GEY0R00	0		1
R219	ERJ3GEYJ124	120K		1
R220	ERJ3GEYJ104	100K		1
R221	ERJ3GEYJ683	68K		1
R222	ERJ3GEYJ104	100K		1
R223	ERJ3GEYJ153	15K		1
R224	ERJ3GEYJ153	15K		1
R225	ERJ3GEYJ683	68K		1
R226	ERJ3GEYJ104	100K		1

Ref. No.	Part No.	Value	Pcs/Set
R227	ERJ3GEYJ273	27K	1
R228	ERJ3GEYJ273	27K	1
R229	ERJ3GEYJ473	47K	1
R230	ERJ3GEY0R00	0	1
R231	ERJ3GEYJ123	12K	1
R232	ERJ3GEYJ472	4.7K	1
R233	ERJ3GEYJ823	82K	1
R234	ERJ3GEYJ563	56K	1
R235	ERJ3GEY0R00	0	1
R236	ERJ3GEY0R00	0	1
R237	ERJ3GEYJ101	100	1
R239	ERJ3GEYJ823	82K	1
R240	ERJ3GEYJ393	39K	1
R241	ERJ3GEYJ105	1M	1
R243	ERJ3GEYJ333	33K	1
R245	ERJ3GEYJ100	10	1
R246	ERJ3GEYJ124	120K	1
R247	ERJ3GEYJ223	22K	1
R248	ERJ3GEYJ223	22K	1
R249	ERJ3GEYJ103	10K	1
R250	ERJ3GEYJ124	120K	1
R251	ERJ3GEYJ103	10K	1
R252	ERJ3GEYJ100	10	1
R253	ERJ3GEYJ181	180	1
R254	ERJ3GEYJ562	5.6K	1
R255	ERJ3GEYJ153	15K	1
R256	ERJ3GEYJ102	1K	1
R257	ERJ3GEYJ474	470K	1
R258	ERJ3GEYJ823	82K	1
R259	ERJ3GEYJ563	56K	1
R260	ERJ3GEYJ472	4.7K	1
R264	ERJ3GEYJ101	100	1
R265	ERJ3GEYJ103	10K	1
R273	ERJ3GEYJ394	390K	1
R280	ERJ3GEYJ271	270	1
R282	ERJ3GEYJ224	220K	1
R283	ERJ3GEYJ103	10K	1
R286	ERJ3GEYJ331	330	1
R288	ERJ3GEY0R00	0	1
R289	ERJ3GEYJ473	47K	1
R290	ERJ3GEYJ273	27K	1
R291	ERJ3GEYJ100	10	1
R294	ERJ3GEYJ102	1K	1
R297	ERJ3GEYJ331	330	1
R298	ERJ3GEYJ331	330	1
R299	ERJ3GEYJ331	330	1
R300	ERJ3GEYJ331	330	1
R306	ERJ3GEYJ333	33K	1
R307	ERJ3GEYJ222	2.2K	1
R308	ERJ3GEYJ103	10K	1
R401	ERJ3GEYJ272	2.7K	1
R402	ERJ3GEYJ4R7	4.7	1
R403	ERJ3GEYJ150	15	1
R404	ERJ3GEYJ123	12K	1
R405	ERJ3GEYJ821	820	1
R406	ERJ3GEYJ681	680	1
R407	ERJ3GEYJ153	15K	1
R408	ERJ3GEYJ153	15K	1
R409	ERJ3GEYJ153	15K	1
R410	ERJ3GEYJ222	2.2K	1
R411	ERJ3GEYJ473	47K	1
R412	ERJ3GEYJ473	47K	1
R413	ERJ3GEYJ470	47	1
R414	ERJ3GEYJ470	47	1
R415	ERJ3GEYJ561	560	1
R416	ERJ3GEYJ822	8.2K	1
R417	ERJ3GEYJ822	8.2K	1
R418	ERJ3GEYJ223	22K	1
R420	ERJ3GEYJ470	47	1
R421	ERJ3GEYJ101	100	1
R422	ERJ3GEYJ153	15K	1

Ref. No.	Part No.	Value		Pcs/Set
R423	ERJ3GEYJ474	470K		1
R424	ERJ3GEYJ152	1.5K		1
R425	ERJ3GEYJ104	100K		1
R427	ERJ3GEYJ564	560K		1
R428	ERJ3GEYJ472	4.7K		1
R429	ERJ3GEYJ334	330K		1
R430	ERJ3GEYJ334	330K		1
R431	ERJ3GEYJ821	820		1
R432	ERJ3GEYJ102	1K		1
R434	ERJ3GEYJ222	2.2K		1
R435	ERJ3GEYJ222	2.2K		1
R436	ERJ3GEYJ123	12K		1
R437	ERJ3GEYJ220	22		1
R438	ERJ3GEYJ222	2.2K		1
R439	ERJ3GEYJ222	2.2K		1
R440	ERJ3GEYJ222	2.2K		1
R441	ERJ3GEYJ222	2.2K		1
R442	ERJ3GEYJ101	100		1
R456	ERJ3GEYJ100	10		1
R457	ERJ3GEYJ822	8.2K		1
R458	ERJ3GEY0R00	0		1
R459	ERJ3GEYJ470	47		1
R460	ERJ3GEY0R00	0		1
R461	ERJ3GEY0R00	0		1
R462	ERJ3GEYJ470	47		1
R463	ERJ3GEYJ100	10		1
R500	ERJ3GEYJ470	47		1
R502	ERJ3GEYJ470	47		1
R509	ERJ3GEY0R00	0		1
J200	PQ4R18XJ000	0		1
J202	ERJ3GEY0R00	0		1
J203	ERJ3GEY0R00	0		1
J204	ERJ3GEY0R00	0		1
J205	ERJ3GEY0R00	0		1
J208	ERJ3GEY0R00	0		1
J209	ERJ3GEY0R00	0		1
J210	ERJ3GEY0R00	0		1
J211	ERJ3GEY0R00	0		1
J212	ERJ3GEY0R00	0		1
J213	ERJ3GEY0R00	0		1
J214	ERJ3GEY0R00	0		1
J215	ERJ3GEY0R00	0		1
J220	PQ4R10XJ000	0		1
J400	ERJ3GEY0R00	0		1
J401	ERJ3GEY0R00	0		1
J402	ERJ3GEY0R00	0		1
J403	ERJ3GEY0R00	0		1
J404	ERJ3GEY0R00	0		1
J410	ERJ3GEY0R00	0		1
J411	ERJ3GEY0R00	0		1
C496	ECST0GX476	47		1
C497	ECST0GX476	47		1
		(CAPACITORS)		
C201	PQCUV1H103KB	0.01		1
C202	PQCUV1H103KB	0.01		1
C203	ECUV1H103KBV	0.01		1
C204	ECUV1H103KBV	0.01		1
C205	ECUV1H103KBV	0.01		1
C206	ECUV1C104KBV	0.1		1
C207	ECEA0JKA331	330		1
C208	ECEA1CKS100	10	S	1
C210	ECUV1C104ZFV	0.1		1
C213	ECUV1H101JCV	100P		1
C214	ECUV1C104KBV	0.1		1
C215	ECUV1H391JCV	390P		1

Ref. No.	Part No.	Value		Pcs/Set
C217	ECUV1C104ZFV	0.1		1
C218	ECUV1A105ZFV	1		1
C219	ECUV1C104ZFV	0.1		1
C220	ECUV1C104ZFV	0.1		1
C221	ECUV1H102KBV	0.001		1
C222	ECUV1H472KBV	0.0047		1
C223	ECEA1VKS4R7	4.7	S	1
C224	PQCUV1C105ZF	1		1
C225	ECUV1H223KBV	0.022	S	1
C226	ECUV1H472KBV	0.0047		1
C227	ECUV1H471JCV	470P		1
C228	ECEA1CKS100	10	S	1
C230	ECEA1CKS100	10	S	1
C231	ECEA1VKS4R7	4.7	S	1
C232	ECUV1C104ZFV	0.1		1
C233	ECUV1H822KBV	0.0082		1
C234	ECUV1A105ZFV	1		1
C235	ECUV1C104ZFV	0.1		1
C237	ECUV1H102KBV	0.001		1
C238	ECUV1C104KBV	0.1		1
C239	PQCUV1C105ZF	1		1
C240	ECEA1CKS470	47	S	1
C241	ECUV1A105ZFV	1		1
C242	ECEA1CKS470	47	S	1
C243	ECUV1H103KBV	0.01		1
C244	ECUV1H182KBV	0.0018		1
C246	ECUV1C104KBV	0.1		1
C248	ECEA0JK221	220	S	1
C250	ECUV1C104KBV	0.1		1
C251	ECST0JX226	22		1
C252	ECUV1H180JCV	18P		1
C253	ECUV1H180JCV	18P		1
C254	ECST0JY106	10		1
C255	ECUV1C104KBV	0.1		1
C256	ECST0JX226	22		1
C258	ECUV1A105ZFV	1		1
C259	ECUV1C104KBV	0.1		1
C261	ECUV1C104ZFV	0.1		1
C263	ECUV1C104ZFV	0.1		1
C264	ECUV1C104ZFV	0.1		1
C265	ECUV1C104ZFV	0.1		1
C266	ECUV1H182KBV	0.0018		1
C267	ECUV1C104ZFV	0.1		1
C297	ECST0GZ225	2.2		1
C298	ECUV1H103KBV	0.01		1
C299	ECUV1C104ZFV	0.1		1
C403	ECUV1H220JCV	22P		1
C404	ECUV1H102KBV	0.001		1
C405	ECUV1H030CCV	3P		1
C406	ECUV1H102KBV	0.001		1
C408	ECUV1H040CCV	4P		1
C409	ECUV1H102KBV	0.001		1
C410	ECEA1CKS470	47	S	1
C411	ECUV1H103KBV	0.01		1
C412	ECUV1H040CCV	4P		1
C413	PQCUV1C224KB	0.22		1
C414	ECUV1H332KBV	0.0033		1
C415	ECUV1H332KBV	0.0033		1
C417	ECUV1H820JCV	82P		1
C418	ECUV1H430JCV	43P		1
C419	ECUV1H080DCV	8P		1
C422	ECUV1H030CCV	3P		1
C423	ECUV1H102KBV	0.001		1
C424	ECUV1H102KBV	0.001		1
C425	ECUV1H102KBV	0.001		1
C427	ECUV1H102KBV	0.001		1
C429	ECUV1H030CCV	3P		1
C430	ECUV1H103KBV	0.01		1
C431	ECEA1CKS470	47	S	1
C432	ECUV1H562KBV	0.0056		1
C433	ECUV1H562KBV	0.0056		1

Ref. No.	Part No.	Value		Pcs/Set
C434	PQCUV1C224KB	0.22		1
C436	ECUV1H680JCV	68P		1
C437	ECUV1H103KBV	0.01		1
C438	ECUV1H220JCV	22P		1
C439	PQCUV1E104MD	0.1	S	1
C440	ECUV1H680JCV	68P		1
C441	ECUV1H333KDV	0.033	S	1
C442	ECUV1H821KBV	820P		1
C443	ECUV1H821KBV	820P		1
C445	ECUV1H472KBV	0.0047		1
C446	ECUV1H020CCV	2P		1
C448	ECUV1C104KBV	0.1		1
C449	ECUV1H103KBV	0.01		1
C450	ECUV1C104KBV	0.1		1
C451	PQCUV1C105ZF	1		1
C452	ECUV1H103KBV	0.01		1
C476	ECUV1H102KBV	0.001		1
C477	ECUV1H030CCV	3P		1
C478	ECUV1H020CCV	2P		1
C479	ECUV1H060DCV	6P		1
C483	PQCUV1C105ZF	1		1
C486	ECUV1H102KBV	0.001		1
C488	ECUV1H101JCV	100P		1
C491	ECUV1H020CCV	2P		1
C498	ERJ3GEYJ104	100K		1
C499	ERJ3GEYJ104	100K		1
C501	ECUV1H101JCV	100P		1
C503	ECUV1H101JCV	100P		1
C505	ECUV1H101JCV	100P		1
C506	ECUV1H101JCV	100P		1
C507	ECUV1H101JCV	100P		1
C508	ECUV1H101JCV	100P		1
C510	ECUV1H101JCV	100P		1
C513	ECUV1H101JCV	100P		1
C517	ECUV1H101JCV	100P		1
C519	ECUV1H101JCV	100P		1
C524	ECUV1H100DCV	10P		1
C525	ECUV1H060DCV	6P		1
C603	ECUV1H040CCV	4P		1
C604	ECUV1H102KBV	0.001		1
C606	ECUV1H102KBV	0.001		1

Ref. No.	Part No.	Part Name & Description	Pcs/Set
		KX-TC908BX	
		ACCESSORIES	
A1	KX-A11BMX	AC ADAPTOR ⚠	1
A2	PQJA59V	TEL CORD	1
A3	PQKK10065Z1	BATTERY COVER (for BASE UNIT)	1
A4	PQKK10066Z1	BATTERY COVER (for PORTABLE HANDSET)	1
A5	PQKL24Y0	WALL MOUNT BRACKET	1
A6	PQQT11156Y	TEL CARD LABEL	2
A7	PQQW11685Z	QUICK REFERENCE GUIDE (ENGLISH)	1
A8	PQQW11736Z	QUICK REFERENCE GUIDE (SPANISH)	1
A9	PQQX11666Z	INSTRUCTION BOOK	1
A10	PQSA10014Z	ANTENNA	1
A11	KX-J05X	PLUG ADAPTOR	1
		PACKING MATERIALS	
P1	PQPP170Z	PROTECTION COVER (for BASE UNIT)	1
P2	PQPP10078Z	PROTECTION COVER (for PORTABLE HANDSET)	1
P3	PQPN10553Z	CUSION	1
P4	PQPN10554Z	ACCESSORY BOX	1
P5	PQPN10564Z	ACCESSORY BOX	1
P6	PQPK12204Z	GIFT BOX	1
		TOOLS	
Z3	PQZZ12K13Z	EXTENSION CORD,12P	1

Note:
PQZZ12K13Z is neccessity for servicing.